

Catalogue No. 84

MONTGOMERY WARD & CO.

FOR NEARLY FIFTY YEARS WE HAVE GIVEN REAL SATISFACTION BY GOOD MERCHANDISE, LOW PRICES, PROMPT SERVICE AND FAIR DEALING. SAVE MONEY BY ORDERING FROM THIS BOOK. WE WILL REFUND YOUR MONEY OR EXCHANGE ANY UNSATISFACTORY PURCHASE

ESTABLISHED 1872

**MONTGOMERY  
WARD *and* CO.**

NEW YORK  
KANSAS CITY

**CHICAGO**

FORT WORTH  
PORTLAND



# SHEET METAL ROOFING AND SIDING

All of our Metal Roofing is clean, smooth, and well manufactured stock—free from rough spots, splits and defects of any kind. We furnish it in two thicknesses, the Standard No. 28 gauge, and a heavier grade, No. 26 gauge, in both Painted and Galvanized. We recommend the No. 26 gauge if you want a good, durable roof, that will give you many years of satisfactory service. We do not handle the light weight, No. 29 gauge roofing (which is sometimes sold for

**OUR SHEET STEEL ROOFINGS ARE ALL FULL WEIGHT. USE OUR HEAVY NO. 26 GAUGE ROOFING, IF YOU WANT THE BEST.**

regular No. 28 gauge), for we consider it too light weight and thin a material to give satisfactory service. A Square signifies 100 square feet of material, no allowance being made for side and end laps. Use our Lead Washers under the nail head, when applying metal roofing. They prevent rust forming under the nail head, insure a tight, durable job, and are not at all expensive. NOTICE: Ordinarily, prices on all metal roofings are effective during the life of this Catalogue, but in the event of extraordinary fluctuations, we reserve the right to revise our prices. Will always bill to you at very lowest market rates.

## CORRUGATED STEEL ROOFING

**\$1.80  
A SQUARE**

Made of open hearth Sheet Steel in two different size corrugations, 2½ in. or 1½ in. (measuring from center to center). The 2½ in. corrugated sheets are 26 in. wide and the 1½ in. corrugated sheets are 25 in. wide (covering width, 24 in.). The painted roofing is red and covered with a good coat of mineral paint (on both sides), but should receive an additional coat after being laid. When ordering by the square, be sure to allow enough extra for the side and end laps, and give length of sheets wanted.

Painted Roofing, 2½ in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Per 12-ft. Sheet	Wgt. Per Sq.	Price Per Square
180B407—No. 28 gauge	20c	24c	29c	33c	36c	40c	50c	68 lbs.	\$1.80
180B408—No. 26 gauge	24c	28c	34c	38c	42c	47c	58c	83 lbs.	2.10

Shipped from our store or from mill in Central Ohio when it will save you freight.

Painted Roofing, 1½ in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Per 12-ft. Sheet	Wgt. Per Sq.	Price Per Square
180B410—No. 28 gauge	22c	26c	31c	36c	40c	44c	54c	72 lbs.	\$1.95
180B411—No. 26 gauge	25c	30c	35c	40c	44c	49c	60c	86 lbs.	2.20

Shipped from our store or from mill in Central Ohio when it will save you freight.

Galvanized Roofing, 2½ in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Per 12-ft. Sheet	Wgt. Per Sq.	Price Per Square
180B420—No. 28 gauge	38c	45c	55c	62c	69c	76c	93c	85 lbs.	\$3.45
180B421—No. 26 gauge	40c	48c	58c	66c	73c	80c	98c	98 lbs.	3.65

Shipped from our store or from mill in Central Ohio when it will save you freight.

Galvanized Roofing, 1½ in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Per 12-ft. Sheet	Wgt. Per Sq.	Price Per Square
180B424—No. 28 gauge	39c	46c	56c	63c	70c	78c	94c	87 lbs.	\$3.55
180B425—No. 26 gauge	41c	49c	59c	67c	74c	82c	99c	101 lbs.	3.75

Shipped from our store or from mill in Central Ohio, when it will save you freight.

## V CRIMPED STEEL ROOFING

**\$1.80  
A SQUARE**

This roofing is made of open hearth sheet-steel. In two styles—sheets with a V-crimp at both edges, and with crimp in center and on edges. Can be laid over sheathing, old shingles or direct to the rafters and is suitable for any roof having a pitch of 2 ins. or more to the foot. The sheets have a covering width of 24 in. after lapping one crimp over the other and should be nailed through the wooden V-strips which we list below. The painted roofing is red, and should have an additional coat of mineral paint after being laid.

Painted Two V Crimp Roofing	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Per 12-ft. Sheet	Wgt. Per Sq.	Price Per Square
180B430—No. 28 gauge	18c	22c	26c	29c	33c	36c	46c	68 lbs.	\$1.80
180B431—No. 26 gauge	21c	25c	30c	33c	38c	42c	53c	83 lbs.	2.10

Shipped from our store or from mill in Central Ohio when it will save you freight.

Painted Three V Crimp Roofing	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Per 12-ft. Sheet	Wgt. Per Sq.	Price Per Square
180B434—No. 28 gauge	20c	24c	28c	32c	36c	40c	48c	72 lbs.	\$1.95
180B435—No. 26 gauge	22c	27c	31c	36c	40c	44c	55c	85 lbs.	2.20

Shipped from our store or from mill in Central Ohio when it will save you freight.

Galvanized Two V Crimp Roofing	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Per 12-ft. Sheet	Wgt. Per Sq.	Price Per Square
180B440—No. 28 gauge	35c	42c	49c	56c	63c	70c	86c	85 lbs.	\$3.45
180B441—No. 26 gauge	38c	46c	53c	61c	68c	75c	92c	106 lbs.	3.70

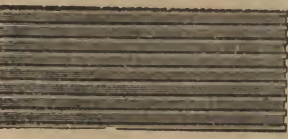
Shipped from our store or from mill in Central Ohio when it will save you freight.

Galvanized Three V Crimp Roofing	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Per 12-ft. Sheet	Wgt. Per Sq.	Price Per Square
180B445—No. 28 gauge	37c	45c	52c	60c	67c	74c	91c	86 lbs.	\$3.65
180B446—No. 26 gauge	39c	48c	55c	64c	71c	78c	95c	106 lbs.	3.90

Shipped from our store or from mill in Central Ohio when it will save you freight.

180B450—Wood V Strips for V Crimped Roofing. It requires 50 ft. of strip for a square of two V crimped sheets, 240 feet for a square of three V crimped sheets. Price, per 100 lineal feet, 20c. Shipped from our store or from mill in Central Ohio when it will save you freight.

## STEEL CEILING AND SIDING BEADED EFFECT



Made of annealed sheet steel, No. 28 gauge. With small beads running lengthwise. Width of sheets, from center to center of the outside beads, 24 inches. The color of painted siding is red.

180B474—Painted Per Sheet	Length of Sheet	180B476—Galvanized Per Sheet
21c	5 ft.	38c
26c	6 ft.	45c
30c	7 ft.	53c
34c	8 ft.	60c
38c	9 ft.	68c
42c	10 ft.	75c

Per square \$2.10 Per square \$3.75

## STEEL SIDING PRESSED BRICK EFFECT



Made of a fine grade of annealed sheet steel. A square consists of 8 3/5 sheets, size 28x60 inches or enough to cover a space of 100 square feet. The single brick measures 2 4/5x8 3/4 in. If this siding is painted red, the mortar lines, striped in white it produces a very handsome effect.

The painted siding is red, but should have an additional coat after it has been put on the building. Weight, per square, painted, 65 lbs.; galvanized, 78 lbs.

180B490—Painted Pressed Brick Siding. Per square.....\$1.95  
180B491—Galvanized Pressed Brick Siding. Per square.....\$3.55

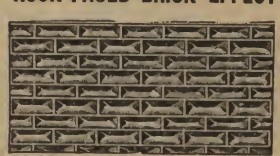
## ROLL AND CAP STEEL ROOFING



Made of open hearth sheet steel. For flat or steep roofs. Especially desirable for uneven surfaces, over shingles, etc. The standing seams are formed 1 inch high with our roofing tongs. The cleats are then nailed to the roof boards, bent around outside the caps, and afterwards closed tight with the seaming tongs. Put up in rolls, length, 50 ft.; width, 26 inches. Contains 108 square feet, which will cover one square. Prices include cleats and caps for applying. We do not sell less than a full roll.

180B460—Painted, No. 28 gauge. Weight, per square, 77 lbs. Price, per square, complete.....\$2.15  
180B461—Painted, No. 26 gauge. Weight, per square, 90 lbs. Price, per square, complete.....\$2.60  
180B464—Galvanized, No. 28 gauge. Weight, per square, 93 lbs. Price, per square, complete.....\$3.95  
180B465—Galvanized, No. 26 gauge. Weight, per square, 100 lbs. Price, per square, complete.....\$4.15

## STEEL SIDING ROCK-FACED BRICK EFFECT

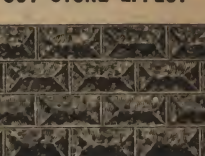


Made of the same material as our brick siding, but the surface presents a rough appearance, in imitation of rock faced brick which is largely used in modern buildings. Size of sheets, 28x60 in. Each brick measures about 2 4/5x8 3/4 in. If painted to resemble stone, produces a very handsome effect.

A square consists of enough material to cover a space of 100 square feet. Weight, per square, painted, 65 lbs.; galvanized, 78 lbs.

180B494—Painted Rock-faced Brick Siding. Per square.....\$2.05  
180B495—Galvanized Rock-faced Brick Siding. Per square.....\$3.65

## STEEL SIDING CUT STONE EFFECT



Made of a fine quality sheet steel and is a good representation of rock-faced cut stone. It can be applied by any mechanic. Should be put on over solid sheathing, and affords an excellent protection against fire. Size of sheets, 28x60 in. Size of each stone, 7x12 in. A square consists of 8 3/5 sheets, or enough to cover a space of 100 square feet. Weight, per square, painted, 65 lbs.; galvanized, 79 lbs.

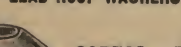
180B500—Painted Stone Faced Siding. Per square.....\$2.10  
180B501—Galvanized Stone Faced Siding. Per square.....\$3.65

## BARBED ROOFING NAILS

For applying Sheet Metal Roofing and Siding. (For Lead Washers, see 80B528.)

80B528—Length, ¾ in. For Siding. Per lb. .30c  
80B529—Length, 1 in. For Roll and Cap Roofing. Per lb. .30c  
80B524—Length, 1½ in. For Corrugated and V-Crimped Roofing. Per lb. .30c

## LEAD ROOF WASHERS



80B528—To go under the nail head. Makes a tight job and avoids the danger of leaks around the nail hole. Recommended for corrugated roofing. About 325 washers in one pound and it requires about ½ lb. for each square. Per lb. .12c

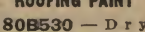


## ROOFING TOOLS

For Roll and Cap Roofing.

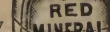
80B468—The following tools are necessary for applying Roll and Cap Roofing: 1 pair Squeezing Tongs for squeezing seams, cast iron jaws, wood handles; 1 pair Edging Tongs for turning up the standing seam, cast iron jaws, wood handles; 1 pair forged steel Tinners' Snips. Shipping weight, 11½ lbs. Per set.....\$1.50 Per lb. .20c

## DRY RED ROOFING PAINT



80B530—Dry Red mineral paint for metal roofing. It requires 1 lb. of the dry powder for a square of roofing. (To be mixed with linseed oil.) Furnished in any quantity.

## RED MINERAL PAINT



We most all of us deny ourselves some things; there is always something beyond our reach. To increase the buying power of a dollar isn't the easiest thing in these days; but every time you can so spend your money that \$3.00 will do the work of four, you are just as surely \$1.00 ahead as though you had earned it in any other way.

## TIN—COPPER—ZINC—AND FLAT SHEET METAL

### PREPARED TIN ROOFING



180B730—Made of the best I. C. (0.0125 inch thick) tin plate, locked and soldered. Put up in rolls containing 120 lineal feet. The strips are perfectly straight and ready to lay on the roof. One of the best and most convenient forms of roofing tin on the market. Painted on under side. Width of strip, 20 in. Put up in cases containing 120 lineal feet or 200 square feet. We cannot sell less than a full case containing 200 square feet. Average shipping weight, per case, 107 lbs. Per roll or case.....\$6.60

### HEAVY GALVANIZED BUILDING CORNERS



Heavy No. 26 Galv. steel. Have correct pitch and lay flat. Chemically treated to hold paint. Punched for nails. Wt. per 100, about 6 lbs. Outside and inside same price.  
80B764—Outside.  
80B765—Inside.

Height	4 in.	6 in.
Per 100	\$ 1.50	\$ 1.62
Per 1000	13.30	14.40

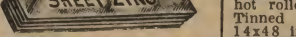
### GALVANIZED SHEET STEEL

180B540—Size, 28x96 in. Best quality. Standard full size bundles. Prices subject to market changes. Weight, per sheet, 21 1/8, 16, 13 lbs.

Gauge	Sheets in Bundle	Per Sheet	Per Bundle
24	7	78c	\$5.25
26	9	64c	\$5.60
27	10	62c	\$6.20
28	10	60c	\$5.90

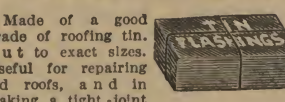
(We cannot sell less than a full sheet.)

### SHEET ZINC



180B550—Regular stock zinc. About 26 gauge. Sheets, 36x72 in. Wt. 14 lbs. Half sheet.....\$2.40 Full sheet.....\$2.75

### TIN SHINGLES OR FLASHING



Made of a good grade of roofing tin. Cut to exact sizes. Useful for repairing old roofs, and in making a tight joint around chimneys, etc.

80B750—Size, 5x7 in. Weight, per hundred, 12 lbs. Per 100.....75c  
80B751—Size, 7x10 in. Weight, per hundred, 24 lbs. Per 100.....\$1.45

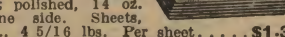
### BLACK SHEET STEEL

180B545—Size, 24x101 in. Best quality. Standard full size bundles. Prices subject to market changes. Weight, per sheet, 17, 12½, 12, 11½ lbs.

Gauge	Sheets in Bundle	Per Sheet	Per Bundle
24	9	40c	\$3.40
26	12	31c	\$3.50
27	12	30c	\$3.45
28	14	28c	\$3.60

(We cannot sell less than a full sheet.)

### SHEET COPPER



80B562—Soft Sheet Copper, hot rolled, not polished, 14 oz. Tinned on one side. Sheets, 14x48 in. Wt., 4 5/16 lbs. Per sheet.....\$1.35  
80B564—Cold Rolled Copper. For evaporator pans, etc., 16 oz. Tinned on one side. Sheets, 30x60 in. Wt., 12½ lbs. Per sheet.....\$3.95 (Prices on copper and zinc subject to market changes.)

### TERNE ROOFING PLATES



With a smooth lead colored surface. Used mostly for roofing purposes. Samples on request.

Notice—Prices on tin plate subject to change without notice, but we will always furnish to you at lowest market rates.

### OLD STYLE IC TIN PLATES (SPANGLED)

(Thickness, .0125 inch)

Number	80B710	80B711
Size, inches	14x20	20x28
Sheets in box	119	149
Average weight, per box	119 lbs.	230 lbs.
Per box	\$6.50	\$13.00
Per sheet	.07	.14

### OLD STYLE IX HEAVY TIN PLATES (SPANGLED)

(Thickness, .0156 inch)

Number	80B714	80B715
Size, inches	14x20	20x28
Sheets in box	119	149
Average weight, per box	149 lbs.	280 lbs.
Per box	\$7.50	\$14.75
Per sheet	.08	.19

### REGULAR IC TIN ROOFING PLATES

(Thickness, .0125 inch)

Number	80B718	80B719
Size, inches	14x20	20x28
Sheets in box	119	149
Average weight, per box	88 lbs.	200 lbs.
Per box	\$4.75	\$9.50
Per sheet	.08	.10

### REGULAR IX HEAVY TIN ROOFING PLATES

(Thickness, .0156 inch)

Number	80B722	80B724
Size, inches	14x20	20x28
Sheets in box	119	149
Average weight, per box	140 lbs.	260 lbs.
Per box	\$8.00	\$11.75
Per sheet	.07	.12



# EAVE TROUGH AND FITTINGS

**EAVE TROUGH HANGER**  
No. 80B660

**EAVE TROUGH CORNERS—SLIP JOINTS**

INSIDE RIGHT HAND CORNER MITER      OUTSIDE LEFT HAND CORNER MITER

**80B650—Inside Bead**  
Standard gauge galvanized steel. State if bead is to be inside or outside and whether right or left hand. (Give size.)  
Size, inches ..... 3 1/2   4   5   6  
Weight, oz. .... 11c   12c   13c   15c  
Each .....

**80B651—Outside Bead**  
Standard gauge galvanized steel. State if bead is to be inside or outside and whether right or left hand. (Give size.)  
Size, inches ..... 3 1/2   4   5   6  
Weight, oz. .... 11c   12c   13c   15c  
Each .....

**EXTRA HEAVY EAVE TROUGH CORNERS**

**80B652—Inside Bead**  
Extra heavy No. 26 gauge. (Give size.)  
Size, inches ..... 3 1/2   4   5   6  
Weight, oz. .... 13c   14c   17c   20c  
Each .....

**80B653—Outside Bead**  
Extra heavy No. 26 gauge. (Give size.)  
Size, inches ..... 3 1/2   4   5   6  
Weight, oz. .... 13c   15c   18c   20c  
Each .....

**GALVANIZED ROOF GUTTER**

Made from U. S. Standard No. 28 gauge galvanized steel, with slip joints. Easily put on as no soldering is required. Made in 10-ft. lengths. Illustration shows the slip end pieces in position, but prices are for the gutter only.

**80B610—Right Hand**  
Width of girt, 14 in. Has roll 3 in. high. Flat surface. 9 inches wide. Weight, 8 lbs. Per length ..... 57c

**80B611—Left Hand**  
Width of girt, 14 in. Has roll 3 in. high. Flat surface. 9 inches wide. Weight, 8 lbs. Per length ..... 57c

**80B612—Right Hand**  
Width of girt, 20 in. Has roll 4 in. high. Flat surface. 13 in. wide. Weight, 12 lbs. Per length ..... 82c

**80B613—Left Hand**  
Width of girt, 20 in. Has roll 4 in. high. Flat surface. 13 in. wide. Weight, 12 lbs. Per length ..... 82c

**GALVANIZED SLIP ENDS**

Galvanized Slip Ends. (State whether right or left hand.)

**80B620—14-in. girt.**  
Wt., 10 oz. Each ..... 16c

**80B621—20-in. girt.**  
Wt., 15 oz. Each ..... 18c

**GALVANIZED SPOUT ENDS**

Galvanized Spout Ends. (State whether right or left hand.)

**80B622—14-in. girt.**  
with 2-in. outlet. Wt., 8 oz. Each ..... 16c

**80B623—20-in. girt.**  
with 3-in. outlet. Wt., 10 oz. Each ..... 18c

**CONDUCTOR HOOKS**

**80B670**—For fastening conductor pipe to side of house. Malleable iron, tinned. (Give size.)

Size	Average Weight, per doz.	Per Doz.
2 in.	1 1/4 lbs.	14c
3 in.	1 3/4 lbs.	22c
4 in.	2 lbs.	32c
5 in.	3 1/2 lbs.	42c

**HINGED HOOKS**

**80B672**—Malleable iron, tinned. For corrugated conductor pipe. For wood buildings. Average weight, 2 in., 1 1/4 lbs.; 3 in., 2 lbs.; 4 in., 3 1/4 lbs.; 5 in., 4 1/4 lbs. (Give size.)

Size, in.	2	3	4	5
Per doz.	45c	65c	80c	\$1.15

**TINNERS' SNIPS**

**85B2362**  
Strictly High Grade Pocket Snips. Forged steel, 2 in. cutting edges. A handy size. Length, 7 in. Average weight, 8 oz. Each ..... 48c

See index for other sizes.

**WIRE EAVE TROUGH HANGERS**

**80B660**—For attaching eave trough to the roof. Made of a heavier galvanized wire than those ordinarily found on the market.

Size, in.	3 1/2	4	5	6
Wt. doz. oz.	17	18	24	26
Dozen	\$0.11	\$0.12	\$0.14	\$0.16
Gross	1.15	1.25	1.50	1.75

**GALVANIZED WIRE STRAINERS**

**80B675**—For keeping leaves and similar obstructions from stopping up the conductor pipe. Made of galvanized wire. Give size.

Size, in.	2	3	4	5
Average weight, oz.	2	3	4	5
Per doz.	15	28	7c	10c
Each	38c	52c	70c	\$1.05

**RAIN WATER FILTERS**

**80B686**—Intended to connect to the conductor pipe. Will prevent leaves, insects, and all other filth from getting into the cistern. The water is strained through a linen sack which can easily be removed to clean. Made of heavy galvanized iron. Give size.

Size	Weight	Each
2 in.	1 1/4 lbs.	\$0.85
3 in.	2 1/4 lbs.	.90
4 in.	3 1/4 lbs.	1.00

**CONDUCTOR PIPE STRAINER**

**80B684**—A self cleaning strainer, made of galvanized iron. The water passes through a corrugated wire strainer, and the refuse is discharged through the opening in front. Give size.

Size, in.	2	3	4
Wt., about, oz.	1 1/2	1 3/4	1 7/8
Each	24c	27c	38c

**GALVANIZED FUNNEL**

**80B705**—Made of galvanized sheet steel, and used to run two conductor pipes into one. Sizes given are the diameters of the lower outlet. Give size.

Size	Wt., about	Each
2 in.	8 oz.	20c
3 in.	14 oz.	25c
4 in.	16 oz.	30c

**RAIN WATER CUT-OFF**

**80B680**—Made of galvanized sheet steel, fitted with safety spring, so you can turn the flow of water from one pipe to another. Give size.

Size	Average Weight	Each
2 in.	9 oz.	20c
3 in.	11 oz.	23c
4 in.	1 1/4 lbs.	30c
5 in.	2 lbs.	55c

**GALVANIZED DROP OUTLETS**

**80B702**—To fit our eave trough. No holder needed. (Give size.)

Size, in.	3 1/2	4	5	6
Weight, oz.	6	7	8	11
Outlet, in.	2	3	4	5
Each	9c	10c	11c	12c

**GALVANIZED END CAPS**

**80B700**—To close up the end of trough. Fits right or left hand. Slip joint.

Size, in.	3 1/2	4	5	6
Wt., oz.	1 1/2	2	3	4
Each	5c	6c	6c	7c
Dozen	50c	55c	60c	70c

**Be Sure to Always Mention Size Wanted**

**GALVANIZED SLIP JOINT EAVE TROUGH**

**180B600—Right Hand**  
Made of best grade of galvanized sheet steel, standard gauge, in 10-foot lengths without a seam. One end of each length is made with a slip joint, which is quickly put together and which requires no soldering. When ordering always state whether right or left hand trough is wanted, or send sketch showing position of outlets, etc. (Give size.)  
Size, in. (inside width at top) ..... 3 1/2   4   5   6  
Average weight, per length, lbs. .... 4 1/2   5   5 1/2   6 1/2  
Per 10-ft. length ..... 26c   28c   33c   39c

**180B601—Left Hand**  
Made of best grade of galvanized sheet steel, standard gauge, in 10-foot lengths without a seam. One end of each length is made with a slip joint, which is quickly put together and which requires no soldering. When ordering always state whether right or left hand trough is wanted, or send sketch showing position of outlets, etc. (Give size.)  
Size, in. (inside width at top) ..... 3 1/2   4   5   6  
Average weight, per length, lbs. .... 4 1/2   5   5 1/2   6 1/2  
Per 10-ft. length ..... 26c   28c   33c   39c

**EXTRA HEAVY EAVE TROUGH**

**180B604—Right Hand**  
Extra Heavy U. S. Standard No. 26 gauge galvanized steel. Much more durable than the ordinary eave trough. In 10-ft. lengths with slip joints. Needs no soldering. (Give size.)  
Size, in. (inside width at top) ..... 3 1/2   4   5   6  
Weight, per length, lbs. .... 5 1/2   7 1/2   7 1/2   9 1/2  
Per 10-ft. length ..... 29c   34c   38c   47c

**180B605—Left Hand**  
Extra Heavy U. S. Standard No. 26 gauge galvanized steel. Much more durable than the ordinary eave trough. In 10-ft. lengths with slip joints. Needs no soldering. (Give size.)  
Size, in. (inside width at top) ..... 3 1/2   4   5   6  
Weight, per length, lbs. .... 5 1/2   7 1/2   7 1/2   9 1/2  
Per 10-ft. length ..... 29c   34c   38c   47c

**ROUND CORRUGATED PIPE, GALVANIZED**

**180B615**—Round Corrugated Conductor Pipe, made of best grade of galvanized steel, standard gauge. In 10-foot lengths without a cross seam. Corrugated to allow for expansion and contraction, and will not burst, even if full of ice. We suggest that you use 2-inch conductor pipe with 3 1/2 and 4-inch eave troughs. Use 3-inch pipe for 5-inch trough, and 4 or 5-inch for 6-inch trough. (Give size.)  
Size, inches ..... 2   3   4   5  
Wt., per lgth., lbs. .... 5   6   8   10  
Per 10 ft. length ..... 27c   33c   44c   54c

**EXTRA HEAVY CONDUCTOR PIPE**

**180B616**—Extra Heavy U. S. No. 26 gauge galvanized steel, corrugated Conductor Pipe. Much more durable than the ordinary conductor pipe. In 10 foot lengths. (Give size.)  
Size, in. .... 2   3   4   5  
Wt., per lgth., lbs. .... 6 1/2   7 1/2   10 1/4   11 1/2  
Per 10 ft. length ..... 34c   39c   48c   60c

**Style 2 Elbow No. 80B642**

**Pipe Hook No. 80B670**

**End Cap and Outlet No. 80B700-2**

**Style 3 Elbow No. 80B643**

**Funnel No. 80B705**

**Conductor Pipe No. 80B615**

**Rain Water Filter No. 80B686**

**Cut-off No. 80B680**

**End Shoe No. 80B545**

**HANDY SOLDERING SETS**

**SOLDERING SALTS**

**80B867**—One of the cleanest and most effective soldering fluxes made. Desired quantity is to be dissolved in water, and applied with brush to parts which are to be soldered. Causes solder to flow readily, and insures tight joints or seams. Put up in 1 lb. bottles, with directions. Wt., about 1 1/2 lbs. 75c value. Each ..... 40c

**MAGNOLIA BABBIT METAL**

**80B850**—Considered by many the best Anti-Friction Metal in use. It will not cut or heat journals, and is adapted for high and low speed machinery. Weight, about 6 1/2 lbs. per bar.

Per bar ..... \$1.63  
Per Half Bar ..... .82

**MELTING LADLES**

**80B860**—Iron Ladles, for melting babbitt metals, lead, etc. Give size.

Diam.	3 in.	4 in.	5 in.
Avg. Wt.	13 oz.	18 oz.	2 lbs.
Each	14c	20c	25c

**GEM NO. 1 SOLDERING SET**

**80B874**—The Gem Soldering Casket. Hollow handle will fit over a gas jet for self-heating. The casket contains large soldering iron, bar of solder, powdered resin and directions in wooden box with sliding cover. Wt., 14 oz. Each ..... 60c

**BABBIT METALS**

**80B852**  
Genuine. Contains pure tin, copper and antimony. For all classes of work. Weight, per bar, about 4 1/4 lbs. (Price subject to change.) Per pound ..... 55c

**NO. 1 BABBIT**

**80B853**  
For all light, fast running machinery, small engine bearings, etc. Weight, per bar, about 6 lbs. (Price subject to market changes.) Per pound ..... 10c

**NO. 3 BABBIT**

**80B855**  
The best low price metal. For pulleys, line shafting, and agricultural machinery. Wt., per bar, about 5 1/2 lbs. (Price subject to market changes.) Per pound ..... 80c

**GEM SOLDERING CASSET NO. 2**

**80B872**—The Gem Soldering Casket containing soldering copper, scraper, and bar of solder and box of resin. Often pays for itself on one home repair job. Weight, 1 lb. Each ..... 40c

**LEADER SOLDERING SET**

**80B870**—Leader Soldering Set, in a box containing soldering copper, scraper, box resin and piece of solder. Useful, but has smaller capacity than the other sets. Weight of set, 10 oz. Price, per set ..... 25c

**BAR METALS** All prices subject to market changes.

**TINNERS' SOLDER**

**80B840**—Contains an equal proportion of pure tin and lead. Strictly half and half. Bars weigh about 1 1/4 lbs. each. Per bar ..... 52c

**PLUMBERS' SOLDER**

**80B842**—Contains 40 parts tin and 60 parts lead. Bars weigh about 1 1/4 lbs. Per bar ..... 45c

**WIRE SOLDER**

**80B844**—Wire Solder, half and half. Diameter, about 1/4 in. Per pound ..... 35c

**BAR TIN**

**80B845**—Genuine, new, pure tin. Bars weigh about 1 1/4 lbs. each. Per bar ..... 80c

**SOLDERING COPPERS**

**80B864**—Square points, for tinner's use. Without wood handles. Price subject to market changes. Weights given are for one copper.

Wt., lbs.	3/4	1	1 1/4	2	3	4
Each	30c	32c	45c	60c	75c	\$1.20

**WOOD HANDLES**

**80B865**—Soldering Copper handles, with wire ferrules. Weight, 2 oz.

Each	2c
Per doz.	16c

**BAR LEAD**

**80B846**—Put up in bars of about 1/4 pound each. Per pound ..... 7c

854 MONTGOMERY WARD & CO. CHICAGO We sell screws, hooks, casters, etc., at bargain prices. See Index MONTGOMERY WARD & CO. CHICAGO 854



## ANIMAL VANE UPRIGHT



**183B7225** — Complete 5-Foot Upright with tee clamp for cable. Has handsome gilt Animal Figure (horse, cow, or rooster; state which). Give color ball wanted. Ball rests on top of three-legged brace. Ship. wt., about 5 1/2 lbs. Each .....\$1.95

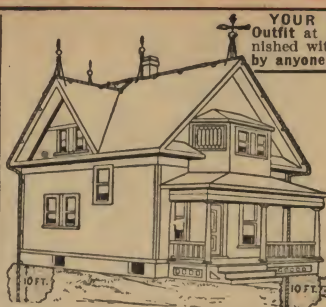
# PEERLESS COPPER CABLE LIGHTNING ROD

## PLAIN UPRIGHT OR TOP

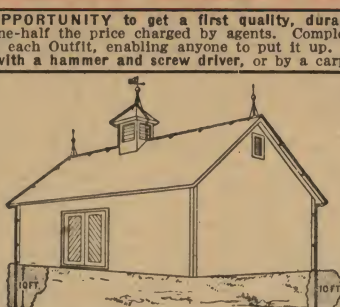
Without Glass Ball



**183B7221** — Complete 5-ft. upright, with tee clamp for cable. Not furnished with ornamental glass ball, which makes our other tops so attractive. Ship. wt., about 5 lbs. Each .....75c



This House is fitted with Peerless Lightning Rods, has the best kind of protection. This equipment requires: 175 ft. of cable; one branch connector; three plain uprights; one upright with arrow vane. (Two ground connections.) Requires four hours to attach. Usual price of agents, \$35.00 and up. Total cost from us .....\$17.89



This Barn, fitted with Peerless Lightning Rods, has the best kind of protection. This equipment requires: 175 feet of cable; two plain uprights; one upright with horse vane (Two ground connections). Requires three hours to put on. Agent's estimate for the job, \$31.75. Total cost from us .....\$17.41

## PLAIN UPRIGHT OR TOP

With Glass Ball



**183B7220** — Complete 5-foot Upright with tee clamp for cable. Has ornamental Glass Ball. Colors are opal, blue, ruby, silver, or gold. Give color wanted. Ball rests on top of three-legged brace. Ship. wt., about 5 lbs. Each .....95c



**183B7222** — Complete 5-foot Upright, with tee clamp for cable. Has handsome Arrow Vane. Has ornamental Glass Ball. Colors are opal, blue, ruby, silver or gold. Give color wanted. Ball rests on top of three-legged brace. Shipping wt., about 5 1/2 lbs. Each .....\$1.40

## DESCRIPTION OF OUR PEERLESS LIGHTNING RODS

Every part is strictly first-class, and of the most modern approved construction. Our prices, however, are remarkably low.

The Uprights are five feet high, and strongly constructed. A Plain upright consists of a three-legged, galvanized steel brace, for attaching to roof. This brace holds a strong, heavy copper tube, with a tee at its lower end, for attaching the cable, and a seamless copper point at the top, properly shaped, with silvered tip. A half-proof, ornamental glass ball is placed near the point. The Ornamental uprights are the same, with the addition of either an animal figure or an arrow vane.

The Extra Heavy Copper Cable is 7/16 inch in diameter, and contains 32 wires, made of the purest copper obtainable. It will safely carry the most powerful discharge.

The Copper Clips and Copper Nails we furnish in sufficient quantity with the cable. They should be fastened about every three feet (directly to the building, not insulated from it), to hold the cable securely in place.

## EXTRA HEAVY GENUINE COPPER CABLE

7/16 PER FOOT. 32 WIRES. 98-99% PURE



GENUINE COPPER  
Full size of Cable showing Fastener

**183B7200**—Extra Heavy Cable. Diameter, 7/16 in. This cable has ample capacity for the heaviest stroke of lightning, gives effective protection at lowest cost. Will last longer than the average building. With copper fasteners, and copper nails to fasten cable directly to your building, about three feet apart. Shipping wt., per foot, about 1/4 lb. .....7c

## STRAIGHT CONNECTOR FOR CABLE JOINING



**83B7212**

Solid brass. The two ends of cable to be joined are clamped by the screws. Average wt., 1 oz. Each .....4c

## BRANCH CONNECTOR FOR CABLE BRANCHES



**83B7210**—Solid brass prongs are hooked over the main cable where desired and fastened by hammering shut. Branch cable is clamped by a screw. Average wt., 2 oz. Each .....8c

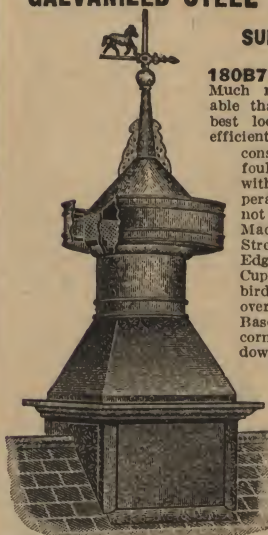
## DIRECTIONS FOR FIGURING A SUITABLE OUTFIT

To Figure the Number of Uprights, or Tops, required: Uprights should be placed on the highest points of building, beside all chimneys (unless they are below the ridge), and reaching above, and on top of all cupolas, gables, etc. Uprights must not be over 20 feet apart, and there should be at least three on every building.

To Measure the Length of Cable Required: Run a stout cord (tacking it with a staple every few feet, which will serve as a guide when cable is to be attached) up one corner of the building to the roof, then up to the ridge and along all ridges and up to all points where tops are to be placed (branching out if necessary). Then branch to everything of metal on or near the roof, gutters, cornices, etc., and then down on opposite end of building. Pull out string and measure, adding enough to make all bends rounding (not sharp), and adding 10 feet extra for each ground connection (where cable goes 10 feet deep into the ground). If building is larger than ordinary, figure on 3, or even 4 ground connections. FULL INSTRUCTIONS WITH EACH OUTFIT.

## GALVANIZED STEEL VENTILATING CUPOLA

SUITABLE FOR LARGE BARN



**180B776**—Extra large, ornamental cupola. Much more attractive, effective and durable than a wood cupola. Considered the best looking cupola on the market. Has efficient double damper arrangement so constructed as to continually draw out foul air and replace it with fresh air without creating a draft. Keeps temperature at a point where animals will not catch cold when taken out of barn. Made of heavy galvanized sheet steel. Strengthened with 3/4-inch steel brace. Edges reinforced with 5/16 inch rods. Cupola screened with 1/2-inch galvanized bird-proof netting. Flanges extend over opening to keep out rain or snow. Base moulding cut in four corners. Each corner strongly braced. Will not break down. Easy to attach. Holes punched on four sides for connecting lightning rod to a standard 3/4 in. Copper tube through center leading to point. Fitted with silvered tip and gold bronzed animal vane. Shipped taken down and nested. Securely crated.

Extreme Height .....13 ft.  
Size, base .....54x54 in.  
Diam. vent flue .....30 in.  
Ship. wt. ....220 lbs.  
Each .....\$27.80

## VENTILATING CUPOLAS

GALVANIZED STEEL VENTILATING CUPOLA

SUITABLE FOR HOG OR POULTRY HOUSES, ETC.



**180B777**—Small, neat, well designed cupola. Gives a small building a finished appearance. So constructed as to continually draw out foul air and replace it with fresh air without creating a draft. Not made with the double damper used in our larger cupolas, but satisfactory for minor ventilation. Keeps temperature at a point where animals will not catch cold when taken out of barn.

Made of heavy galvanized sheet steel. Well braced. Cupola screened with 1/2-in. galvanized bird-proof netting. Flanges extend over opening to keep out rain or snow. Base moulding cut in four corners. Each corner strongly braced. Will not break down. Easy to attach. Holes punched on four sides for connecting lightning rod to standard 3/4 in. Copper tube through center leading to point. Fitted with silvered tip and gold bronzed animal vane. Shipped taken down and nested. Securely crated.

Extreme height .....6 ft.  
Size base .....24x24 in.  
Diam. vent flue .....16 in.  
Ship. wt. ....50 lbs.  
Each .....\$8.25

## GALVANIZED STEEL VENTILATING CUPOLA

SUITABLE FOR SMALL BARN, CATTLE SHEDS, ETC.



**180B778**—Large, attractive cupola. So constructed as to continually draw out foul air and replace it with fresh air without creating a draft. Efficient double damper arrangement. Keeps temperature at a point where animals will not catch cold when taken out of barn. Animals will thrive better with the added fresh air.

Made of heavy, galvanized sheet steel. Braced with 3/4 in. steel brace. Edges reinforced with 5/16 in. rods. Cupola screened with 1/2 in. galvanized, bird-proof netting. Flanges extend over opening to keep out rain or snow. Base moulding cut in four corners. Each corner strongly braced. Will not break down. Easy to attach. Holes punched on four sides for connecting lightning rod to a standard 3/4 in. Copper tube through center leading to point. Fitted with silvered tip and gold bronzed animal vane. Shipped taken down and nested. Securely crated.

Extreme height .....9 ft.  
Size base .....36x36 in.  
Diam. vent flue .....24 in.  
Ship. wt. ....90 lbs.  
Each .....\$19.75

## ROOF VENTILATORS



**80B770**—Made from the best grade of heavy galvanized iron. Excellent for ventilating schools, churches, public buildings, barns, etc. Rain-proof. (Give size.)

Size, in. ....	4	6	8	10	12
Weight, lbs. ....	1	2 1/4	4 1/2	6 3/4	9 1/2
Each .....\$0.70	\$1.30	\$1.75	\$1.90	\$2.25	

## IRON CHIMNEY CAP



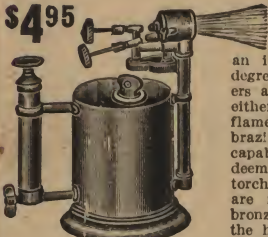
**80B774**—Cast Iron Adjustable Chimney Cap. Protects the bricks and lasts as long as the chimney. Fastens securely with malleable corner clamps. No mortar needed. Diameter of collar, 7 in. Size of base, 12"x16" in. Clamps can be adjusted to fit 4x8, 4x12, 8x8, or 8x12 in. flues. Average wt., 15 lbs. Each .....85c

## REVOLVING CHIMNEY TOP

**80B772**—Protects the chimney from rain and snow. Produces a strong, regular draft under almost all conditions, and prevents down draft. The iron mountings are strong and substantial, and top is pivoted so as to revolve easily. Hood and vane are of heavy galvanized iron. (Give size.)

Diam. Base.	Average Wt.	Each
6 in.	3 1/4 lbs.	75c
7 in.	4 lbs.	90c
8 in.	5 lbs.	95c

## DOUBLE JET BRAZING TORCH



**80B807** — Gasoline Torch with double jet burners, will burn in any position, and generates an intense heat of about 3,000 degrees (Fahrenheit). The burners are easily adjusted to produce either a large or a small, pointed flame. A fine torch for all light brazing, tempering, etc., and is capable of doing work heretofore deemed impossible with a blow torch. All parts of this torch are made of heavy brass and bronze, the pump is contained in the handle of the torch, and full directions for operating are attached. Capacity of tank, 1 quart, height over all, 9 in. Ship. wt., about 3 1/4 lbs. Each .....\$4.95

## GASOLINE FURNACE



**180B820**—Unexcelled by any other at a similar price. Produces a very hot flame. Constructed in a first class, durable manner. Has shield to hold a melting pot. Melting pot not included. With heavy galvanized iron gasoline tank. Substantial rubber pressure bulb. All small castings are made of malleable iron and brass. The coil or burner is made of extra heavy copper pipe. Every pot is tested before leaving factory. Consumption, 1 pint of gasoline per hour. Height over all, 17 1/2 in. Diameter, 8 1/4 in. Shipping weight, about 10 lbs. Each .....\$2.95

## GASOLINE TORCHES AND FURNACES

### GASOLINE TORCH AND SPRAYER



**80B800**—A most useful combination with two interchangeable nozzles. One throws a fine stream of gasoline for cleaning machinery, destroying roaches, bed bugs, etc. The other produces an intensely hot, blue blast for soldering, painting, etc. Brass body, pump and nozzles. Steel soldering copper holder. Well made and finely finished. Capacity, 1 quart. Height, 9 in. Shipping weight, about 5 1/2 lbs. Each .....\$2.45

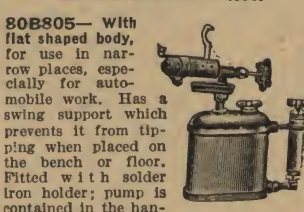
### TINNERS' CHARCOAL STOVE



**180B825**—Extensively used as an economical means of keeping soldering coppers at a working heat. Burns regular lump charcoal. With a shaking door, hinged hearth door, reversible flue and double dampers. Thoroughly well made, and nicely finished in black japan. Height, 15 in. Diameter, 7 in. Shipping wt., about 17 lbs. Soldering coppers not included. Each .....\$1.90

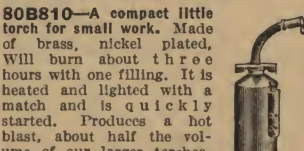
**86B296**—Lump Hardwood Charcoal. Per 7-lb. bag .....12c

### GASOLINE AUTO TORCH



**80B805**—With flat shaped body, for use in narrow places, especially for auto mobile work. Has a swing support which prevents it from tipping when placed on the bench or floor. Fitted with solder iron holder; pump is contained in the handle and has a powerful burner. Capacity, 1 pint; height over all, 9 in. Ship. wt., about 4 lbs. Each .....\$3.15

### GASOLINE TORCH



**80B810**—A compact little torch for small work. Made of brass, nickel plated. Will burn about three hours with one filling. It is heated and lighted with a match and is quickly started. Produces a hot blast, about half the volume of our larger torches. Operates without a pump. One of the handiest little torches ever made. Should be in every householder's tool set. Often saves its cost in making one quick repair job. Total height, 6 1/2 in. Diameter, 1 1/4 in. Wt., 4 oz. Each .....85c

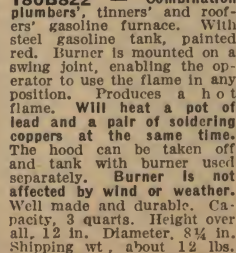
## GASOLINE BLOW TORCH

One of the finest and most popular torches on the market. Made of polished brass with special bronze metal burner, and improved air pump. Produces a solid blue flame, generating about 1,500 degrees (Fahrenheit). It is easily regulated and indispensable for paint burning, soldering, thawing out pipes. Used by plumbers, tinner, electricians, etc. Has an adjustable solder iron holder, which can be easily removed if desired. Every torch is tested and is perfect.

**80B802**—Capacity, 1 pint. Height, 7 in. Ship. wt., about 3 lbs. Each .....\$1.95

**80B803**—Capacity, 1 quart. Height, 9 in. Ship. wt., about 4 lbs. Each .....\$2.25

### GASOLINE FURNACE



**180B822** — Combination plumbers', tinner's and roofers' gasoline furnace. With steel gasoline tank, painted red, mounted on a swing joint, enabling the operator to use the flame in any position. Produces a hot flame. Will heat a pot of lead and a pair of soldering coppers at the same time. The hood can be taken off and tank with burner used separately. Burner is not affected by wind or weather. Well made and durable. Capacity, 3 quarts. Height over all, 12 in. Diameter, 8 1/4 in. Shipping wt., about 12 lbs. Each .....\$4.35



## FENCE WIRE AND STAPLES



**WE CAN  
ALWAYS SAVE YOU MONEY**

Note—Prices on fence wire are entirely dependent upon market conditions, making it impossible to quote a fixed price in this catalogue, and therefore prices given are subject to change without notice. We allow you the benefit of all declines in market prices whether asked for or not, and assure you that you will at all times have the benefit of the very lowest prices ruling at the time your order is received. Write us for delivered prices to your station.

### BARBED FENCE WIRE

A perfect wire. Thoroughly annealed. We recommend the two point single twist barbs shown above. Much neater than four point barb, easier to handle and just as effective. Two strands (regular) No. 12 gauge wire. Weight per rod, about 1 pound. Cattle wire has barbs about 5 in. apart. Hog wire has barbs about 3 in. apart.

Standard Painted Two Point Barbed Wire At Mill

280B1450—Cattle Wire. Reel of 100 lbs.	\$1.90
280B1451—Cattle Wire. Spool of 80 rods.	1.55
280B1452—Hog Wire. Reel of 100 lbs.	1.90
280B1453—Hog Wire. Spool of 80 rods.	1.65

Standard Galvanized Two Point Barbed Wire

280B1456—Cattle Wire. Reel of 100 lbs.	\$2.40
280B1457—Cattle Wire. Spool of 80 rods.	2.00
280B1458—Hog Wire. Reel of 100 lbs.	2.40
280B1459—Hog Wire. Spool of 80 rods.	2.10

Standard Galvanized Four Point Barbed Wire

280B1460—Cattle Wire. Spool of 80 rods.	\$2.10
280B1461—Hog Wire. Spool of 80 rods.	2.25

### ECLIPSE 80-ROD BARBED WIRE

Our Eclipse is a medium weight fence wire. Preferred by many to the regular standard barbed wire. Easy to handle. Tough and elastic. Cable wires are No. 14 gauge. Put up on spools containing 80 rods. Weight, per spool, 56 to 58 lbs.

280B1470—Painted Hog Wire. Spool of 80 rods.	\$1.40
280B1471—Galvanized Hog Wire. Spool of 80 rods.	1.70
280B1472—Painted Cattle Wire. Spool of 80 rods.	1.30
280B1473—Galvanized Cattle Wire. Spool of 80 rods.	1.60

Shipped from factory in Northern Indiana.

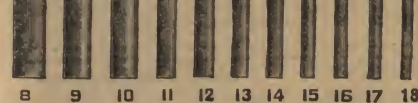
### TWISTED CABLE FENCE WIRE

Made of two strands of No. 12 gauge smooth steel wire (no barbs). Preferred to single strand fence wire because of its greater strength. Often used at top and bottom of fences made with plain, smooth fence wire. No barbs to catch and tear clothes or injure animals. Put up in reels of about 100 lbs.

280B1480—Painted Cable Fencing. Reel of 100 lbs.	\$1.90
280B1481—Galvanized Cable Fencing. Reel of 100 lbs.	2.40

Shipped from factory in Northern Indiana.

### SMOOTH FENCE WIRE



Smooth Steel Fence Wire. Put up in 100-lb. bundles. We do not break bundles, and prices are free on board cars at factory. All wire prices are subject to market changes, so we cannot guarantee them, but will always bill to you at the very lowest market rates. (Give size.)

Size or gauge	8	9	10	11	12	13	14	15	16	17	18
Feet in 1 pound	14 3/4	17 1/4	20 3/4	26	34 1/4	44 1/4	57 1/4	73 1/4	93 1/4	118 1/4	148 1/4
280B1490—Plain, per 100 lbs.	\$1.70	\$1.70	\$1.75	\$1.80	\$1.85	\$1.95	\$2.05	\$2.15	\$2.25	\$2.35	\$2.45
280B1492—Galvanized, per 100 lbs.	2.20	2.20	2.25	2.30	2.35	2.45	2.55	2.65	2.75	2.85	2.95

### THE CINCH WIRE FENCE STAYS

280B1495—Gives you a stiff, rigid fence at small expense. Easily and rapidly put on. Start the open end of the stay over the top strand of fence. Twisted down by hand over each line wire. At the bottom bend the stay up a trifle. This locks it. Made of No. 10 hard galvanized wire. We cannot furnish less than a bundle of 100 stays.

Length	Ship. wt., per 100	Per 100 stays
24 in.	24 lbs.	\$1.44
30 in.	27 lbs.	1.57
36 in.	32 lbs.	1.70
42 in.	38 lbs.	1.85
48 in.	43 lbs.	2.00
54 in.	48 lbs.	2.20
60 in.	54 lbs.	2.64

Shipped from factory in Northern Indiana

### FENCE STAPLES

Prices on staples are subject to market changes. We cannot guarantee them, but will always bill to you at the lowest market rates.

#### REGULAR FENCE STAPLES

Made of steel wire, with sharp points. Intended for barbed wire and the heavier woven wire fences.

#### 180B1504—POLISHED

Length, 1 1/4 in. Per lb.	\$0.03
Per keg, 100 lbs.	2.15
Length, 1 1/2 in. Per lb.	2.15
Per keg, 100 lbs.	2.15
Length, 1 3/4 in. Per lb.	2.15
Per keg, 100 lbs.	2.15

#### 180B1505—GALVANIZED

Length, 1 1/4 in. Per lb.	\$0.03 1/2
Per keg, 100 lbs.	2.70
Length, 1 1/2 in. Per lb.	0.03 1/2
Per keg, 100 lbs.	2.70
Length, 1 3/4 in. Per lb.	0.03 1/2
Per keg, 100 lbs.	2.70

### LIGHT NETTING STAPLES



#### Galvanized

Made of stiff steel wire with sharp points. Will not readily bend or split the wood. Intended for attaching light poultry netting. Approximate number to a pound: 5 in., 505; 1 in., 360 staples.

80B1506—Length, 3/4 in.

Per lb. . . . . 2.70

80B1507—Length, 1 in.

Per lb. . . . . 2.70

## HEAVY SQUARE MESH WIRE CLOTH

### GALVANIZED WIRE CLOTH (Square Mesh)

180B1350—Heavy square mesh galvanized wire cloth, for window guards, fruit evaporators, screens, cages, etc. The mesh means the number of openings or holes to the inch measured from the centers of the wires; for instance, No. 6 mesh has 6 meshes or openings to the inch. We furnish as follows: No. 2 mesh of 19 gauge wire; No. 3, 21 gauge; No. 4, 23 gauge; No. 5, 24 gauge; No. 6, 25 gauge. All heavily galvanized. Be sure to state mesh wanted.

No. of Mesh	Width Inches	Average Ship. wt. 100 ft.	Price per roll 100 ft.	Price per linear foot	Price per square foot
Heavy Square Mesh Wires Securely Soldered Together	2 and 3	24	6.0 lbs.	\$ 8.90	\$3.60
	3 and 4	30	7.5 lbs.	8.95	4.50
	4 and 5	36	9.3 lbs.	10.35	5.40
	5 and 6	42	11.2 lbs.	11.75	6.30
	6 and 8	48	13.1 lbs.	13.25	7.20
	8 and 10	54	15.0 lbs.	14.75	8.10
	10 and 12	60	16.9 lbs.	16.25	9.00
	12 and 14	66	18.8 lbs.	17.75	9.90
	14 and 16	72	20.7 lbs.	19.25	10.80
	16 and 18	78	22.6 lbs.	20.75	11.70
	18 and 20	84	24.5 lbs.	22.25	12.60
	20 and 22	90	26.4 lbs.	23.75	13.50
	22 and 24	96	28.3 lbs.	25.25	14.40

## TACKLE BLOCKS, HOISTS, JACK SCREWS

### IRON STRAP WOOD TACKLE BLOCKS

The shell is of hard wood, with rounded edges to prevent wearing the rope. Iron sheave wheels revolve on steel pins. The single block is shown in illustrations with becket. The double and triple blocks are made with and without becket. Always state which is wanted. Not suitable for use with chain. Intended for rope only. Give size.



Size of shell, inches For rope, inches	4 1 1/2	5 2 1/4	6 3 1/4	7 4 1/4	8 5 1/4	10 7 1/4	12 9 1/4
83B2450—Single, With becket	\$0.19	\$0.21	\$0.25	\$0.30	\$0.38	\$0.63	\$1.05
Average weight, lbs	1 1/2	2 1/4	3 1/4	5 1/4	7 1/4	14 1/2	22 1/2
83B2452—Double, Without becket	\$0.37	\$0.42	\$0.47	\$0.56	\$0.65	\$1.00	\$1.75
83B2453—Double, With becket	.38	.44	.49	.58	.67	1.04	1.78
Average weight, lbs	2 1/2	3 3/4	5 1/2	8 1/2	11 1/4	20	28
83B2454—Triple, Without becket	\$0.50	\$0.52	\$0.67	\$0.82	\$0.98	\$1.45	\$2.45
83B2455—Triple, With becket	.52	.54	.69	.84	1.00	1.48	2.48
Average weight, lbs	2 1/2	5 1/4	8 1/2	12	16	28	47





# GUARANTEED GARDEN HOSE

## ECLIPSE HOSE OUTFIT

**Complete \$4.65**

**Hose, Nozzle and Reel**

**183B6160**—Outfit complete, consisting of 50 ft. of 1/2 inch Eclipse brand rubber hose with hardwood reel; adjustable stream, brass nozzle, coupled ready for use. Average shipping weight, 30 lbs. .... **\$4.65**

## LAKESIDE HOSE OUTFIT

**Complete \$6.50**

**Hose, Nozzle and Reel**

**183B6162**—Outfit complete, consisting of 50 ft. of 1/2 inch Lakeside high grade rubber hose, with hardwood reel; adjustable stream, brass nozzle, coupled ready for use. Average shipping weight, 30 lbs. .... **\$6.50**

## MULTIPLE FIVE-PLY HOSE OUTFIT

**Complete \$5.10**

**Hose, Nozzle and Reel**

**183B6168**—Outfit complete, consisting of 50 ft. of 1/2 inch Multiple Five-Ply Rubber Garden Hose, with hardwood hose reel; adjustable stream, brass nozzle, coupled ready for use. Ship. wt., 30 lbs. Usual retail value from \$7.00 up. Our price, complete **\$5.10**

## LAKESIDE RED RUBBER HOSE

**\$6.60**

**183B6164**—Outfit complete, consisting of 50 ft. of 1/2 inch Lakeside Red Cover Rubber Garden Hose, With steel reel, adjustable stream, brass nozzle, complete. Shipping wt., 35 lbs. Usual retail value, \$10.00. Our price for complete outfit... **\$6.60**

**183B6272**—Reel only, as above, made of steel, black japanned. Light, but strong and durable. 21 in. wheels, 12 in. drum; height over all, 108 in. Capacity, 100 ft. Shipping weight, 15 lbs. Each ..... **\$1.25**



## QUALITY GARDEN HOSE

Our Rubber Hose is made for us by one of the oldest and best manufacturers in the country, who has an established reputation for making only high grade, reliable goods. We do not handle the cheap, competition grades of hose, for the reason that they are usually dear at the prices asked. We furnish good, honest and dependable hose at prices that you will find to be uniformly low. We include brass couplings with each order for full 50-ft. length or more. Hose is measured by its inside diameter.

## ECLIPSE RUBBER HOSE

**ECLIPSE 3 PLY 8c Per Foot**

**183B6172**—A Good, Three-Ply Rubber Hose. For all ordinary lawn use. Has rubber inner tube, three-ply woven fabric, vulcanized together with a rubber cover. Ext. length, 50 ft. length, 15 lbs. Size, 1/2 in. Couplings attached to 50 ft. lengths. Per foot..... **\$4.00**

## MULTIPLE FIVE-PLY HOSE

**MULTIPLE 5 PLY 9c Per Foot**

**183B6174**—An Excellent, Five-Ply Rubber Hose. Will give good service. Has rubber inner tube, five-ply woven fabric, vulcanized together with a rubber cover. Weight of 50 ft. length, 17 lbs. Size, 1/2 in. Couplings attached to 50 ft. lengths. Per ft. .... **\$0.09**

## EXTRA STANDARD HOSE

**EXTRA STANDARD 10 1/2c Per Foot**

**183B6178**—High Grade, Three-Ply Rubber Hose. Thick rubber inner tube, three-ply, heavy woven fabric, vulcanized together. Rubber cover. Weight of 50 ft., 15 lbs. Size, 1/2 in. Couplings attached to 50-ft. lengths. Per ft. .... **\$1.02**

**183B6179**—Same grade, but with four-ply vulcanized fabric. Wt. of 50-ft., 18 lbs. Couplings attached to 50-ft. lengths. Per foot ..... **\$1.30**

## LAKESIDE RUBBER HOSE

**RED 6 PLY 11c Per Foot**

**183B6182**—A High Grade, Serviceable, Six-Ply Rubber Hose. Fine quality. Has first quality rubber inner tube, six-ply woven fabric, vulcanized together. Has a handsome red rubber cover. Wt., of 50-ft. length, 20 lbs. Size, 1/2 in. Couplings attached to 50-ft. lengths. Per ft. .... **\$0.11**

## LAKESIDE RUBBER HOSE

**LAKESIDE 3 PLY 12c Per Foot**

**183B6180**—A Fine, Durable Three-ply Rubber Hose. Extra quality throughout. Has excellent grade rubber inner tube, three-ply, heavy woven fabric, vulcanized together and a tough rubber cover. Weight of 50 ft. length, 16 lbs. Size, 1/2 in. Couplings attached to 50-ft. lengths. Per ft. .... **\$0.12**

## NON-KINKABLE CONTINUOUS RUBBER HOSE

**14c Foot**

**DOUBLE BRAIDED INSERTION**

**183B6185**—Our Strongest and Best Garden Hose. Durable and anti-kinking. Far superior to common hose. Made with a circular braided, double-woven cotton jacket insertion, which gives it remarkable strength, and makes kinking impossible. Heavy, seamless, molded rubber covering. We furnish any continuous length up to 500 ft. Size, 1/2 in. Weight, per 100 ft., 50 lbs. (Couplings not included.) Per foot ..... **\$0.14**

**183B6186**—Per 50-ft. length, with brass couplings attached **7.00**

## MULTIPLE SEVEN-PLY HOSE

**MULTIPLE 7 PLY 12c Per Foot**

**183B6175**—A Fine Quality Seven-ply Rubber Hose. Strong and flexible. Has first quality rubber inner tube, seven-ply woven fabric, vulcanized together and a rubber cover. Weight of 50 ft. length, 20 lbs. Size, 1/2 in. Couplings attached to 50-ft. lengths. Per foot ..... **\$0.12**

## COTTON GARDEN HOSE

Seamless Woven, Cotton Garden Hose. Rubber lining or inner tube. Light weight, easy to handle and will stand a high pressure. In lengths of 50 ft. with brass couplings. Can supply in full lengths only. Size, 1/2 in. (Inside diameter.)

**183B6200**—Standard grade. Weight, 8 1/2 lbs. Price, per 50 ft. length ..... **\$4.00**

**183B6201**—Extra quality. A fine, serviceable hose. Weight, 10 lbs. Price, per 50 ft. length ..... **5.50**

## HOSE NOZZLE

**28c**

**183B6230**—Brass Nozzle. Extra quality. Adjustable from a solid stream to a fine spray. One size only for 1/2 in. hose. Weight, 4 oz. Each ..... **28c**

## ADJUSTABLE NOZZLE

**32c**

Adjustable Hose Nozzle. Extra quality, polished brass. Will produce a variety of sprays, from a fine mist to a solid stream. Wt., each, 7 or 12 oz.

**183B6231**—For 1/2 in. hose. .... **32c**

**183B6232**—For 1 in. hose. .... **65c**

## ROSE SPRINKLER HEAD

**183B6234**—Brass Sprinkler Head. Will throw a fine, misty spray that will not injure delicate plants. Indispensable for garden and hothouse work. Diameter, 3 1/2 in. for 1/2 in. hose. Wt., 7 oz. Each ..... **43c**

## RAINBOW LAWN SPRINKLER

**183B6236**—Made of brass. Throws a beautiful fine spray over a wide area. Can be moved about with a shut-off water and makes an excellent hand sprinkler. Diameter, 3 1/2 in. for 1/2 in. hose. Weight, 4 oz. Each ..... **35c**

## REVERSIBLE LAWN SPRINKLER

**183B6237**—Instantly adjusted for any pressure and by simply reversing the brass cap, can be made to throw either a high or low spray. Cast iron base. For 1/2 in. hose. Weight, 1 1/2 lbs. Each ..... **48c**

## LAWN SPRINKLER

**183B6238**—Throws a good spray. Nothing to clog up or get out of order. Cast iron base with brass tip. No back pressure on the hose. For 1/2 in. hose. Weight, 2 1/2 lbs. Each ..... **47c**

## REVOLVING LAWN SPRINKLER

**95c**

**183B6240**—Three brass arm revolving lawn sprinkler. Cast iron base. Distributes water in large circle. Retail value, \$1.50. Height, 11 in. For 1/2 in. hose. Weight, 2 lbs. 10 oz. Each ..... **95c**

## BRASS HOSE COUPLINGS

**183B6250**—For water or steam hose. Well made. Wts., each, 1/4 lb. to 1 1/4 lbs.

Each ..... **8c 10c 14c 34c 46c 84c**

**IRON HOSE SPLICERS**

**183B6251**—Hose splicer, for mending hose, Wts., 2 to 4 oz.

Size, in. .... **16c 22c 30c**

## BRASS HOSE CLAMPS

**183B6252**—Made of brass. Will not rust. Cheap as wire band, but better. With bolt. Weight, each, 1 to 8 oz. (Give size.) Size means for inside diameter hose.

Size	Each	Dozen
1/4 in.	\$0.03	\$ 0.26
1/2 in.	.03	.22
3/4 in.	.09	.90
1 in.	.10	1.05
1 1/2 in.	.13	1.45
2 in.	.23	2.55
3 in.	.32	3.60

## RUBBER HOSE WASHERS

Rubber Washers or Gaskets, to be placed inside hose coupling to make the joint water tight. Made of a good grade of rubber and proper size to fit tight in the coupling. Wt., per doz., 1 oz.

**183B6253**—For 1/2 in. coupling. Per dozen ..... **4c**

**183B6254**—For 1 in. coupling. Per dozen ..... **7c**

## HANDY HOSE MENDERS

**35c**

**183B6258**—In boxes containing 1 pair pliers, 6 brass tubes and 18 wire bands. For 1/2 in. garden hose. Wt., 14 oz. Per set ..... **35c**

**183B6259**—Hose Bands. Extra Parts. Per doz. .... **8c**

**183B6260**—Hose Tubes (brass). Dozen ..... **30c**

## GARDEN HOSE REELS

**183B6270**—Wood frame, iron wheels. Capacity, 100 ft. of 1/2 in. hose. Height, 39 in. Shipping wt., about 9 lbs. Usual \$1.00 retail value. Each ..... **55c**

**183B6271**—Wood frame, painted; iron wheels. Capacity, 200 ft. of 1/2 in. hose. Hgt., 40 in. Ship. wt., about 13 lbs. Usual \$1.25 retail value. Each ..... **90c**

## ENSIGN LAWN MOWER

**\$2.25**

Built of high grade material by skilled workmen, but we offer it at a low price. A durable and easy running machine which meets the demands of many of our patrons, whose lawns are not of sufficient size to justify the purchase of a higher priced machine. Has three blade revolving cutter, made of crucible steel. Diameter of cast iron drive wheels, 8 in. Handle and roller of seasoned hardwood. Machine is nicely finished.

Article Number	Width Blade	Average Ship. Wt.	Each
183B1620	12 in.	32 lbs.	<b>\$2.25</b>
183B1621	14 in.	35 lbs.	<b>2.40</b>
183B1622	16 in.	37 lbs.	<b>2.50</b>

## LAKESIDE BALL-BEARING LAWN MOWER

**\$4.90 to \$5.60**

**HIGH WHEEL LIGHT RUNNING—BALL-BEARING**

Strictly high grade. Fitted with high grade, easy running, hardened steel ball bearings. Simple adjustment, easily accessible. Has a locking screw which prevents it from getting out of adjustment, a very important and valuable feature. The revolving cutter and bottom knives are made from the highest grade steel, carefully hardened. The workmanship and finish throughout is of the best. Diameter of iron drive wheels, 9 in. Handle and roller of seasoned hardwood, nicely varnished. Has four steel blades on the revolving cylinder. Mower is nicely finished and painted. This is a light, easy-running machine that will give perfect satisfaction.

**183B1634**—Width of blade, 14 in. Average shipping weight, 45 lbs. Each ..... **\$4.90**

**183B1635**—Width of blade, 16 in. Average shipping weight, 47 lbs. Each ..... **5.25**

**183B1636**—Width of blade, 18 in. Average shipping weight, 49 lbs. Each ..... **5.60**

## LAWN MOWERS

One of the highest grade lawn mowers on the market. The cutter knives are made of high grade steel and are easily adjusted by locking screws.

The revolving cylinder has four steel blades of sufficient diameter to make an exception to a very easy running machine in high grass. Diameter of iron drive wheels, 10 in. Handle and roller of seasoned hardwood.

The Imperial Lawn Mower is in use by the U. S. Government, and in the parks of New York, Buffalo, Chicago, Detroit and many other large cities.

If you want a smooth, easy running, high grade machine, buy our Imperial Lawn Mower. Regular \$9.00 to \$12.00 retail value.

**183B1650**—Width of blades, 14 in. Average shipping weight, 52 lbs. Each ..... **\$7.40**

**183B1651**—Width of blades, 16 in. Average shipping weight, 58 lbs. Each ..... **8.10**

**183B1652**—Width of blades, 18 in. Average shipping weight, 61 lbs. Each ..... **8.80**

**183B1653**—Width of blades, 20 in. Average shipping weight, 62 lbs. Each ..... **9.60**

Power lawn mowers for parks, golf links, large estates, etc. A special circular describing them will be mailed you on request.

## GENUINE IMPERIAL LAWN MOWER

**IMPROVED HIGH WHEEL \$7.40**

**183B1654**—Width of blades, 14 in. Average shipping weight, 52 lbs. Each ..... **\$7.40**

**183B1655**—Width of blades, 16 in. Average shipping weight, 58 lbs. Each ..... **8.10**

**183B1656**—Width of blades, 18 in. Average shipping weight, 61 lbs. Each ..... **8.80**

**183B1657**—Width of blades, 20 in. Average shipping weight, 62 lbs. Each ..... **9.60**

Power lawn mowers for parks, golf links, large estates, etc. A special circular describing them will be mailed you on request.

## NEW YORK IMPROVED MOWER

**\$3.15**

An excellent, substantial mower at a medium price. Late improvements in ratchet, back roller hanger and adjustment. Easy running, practically noiseless and first-class throughout. Has four blades and bottom knife, made of highest grade steel, carefully tempered. Diameter of iron drive wheel, 8 in. Handle and roller of seasoned hardwood. Machine is nicely finished.

Article Number	Width Blade	Average Ship. Wt.	Price, Each
183B1628	14 in.	34 lbs.	<b>\$3.15</b>
183B1629	16 in.	36 lbs.	<b>3.50</b>
183B1630	18 in.	40 lbs.	<b>3.85</b>

## LAWN MOWER SHARPENER

**185B1638**—Consists of a small cast iron handle containing a steel file with four cutting edges. Will sharpen any lawn mower. Length, about 3 in. Weight, about 3 oz. Each ..... **18c**

## ADJUSTABLE GRASS CATCHERS FOR LAWN MOWERS

Made of canvas, with galvanized sheet steel bottom. Will fit any mower.

**183B1670**—For mowers, 18 in. and smaller. Weight, 3 1/2 lbs. Each ..... **48c**

**183B1671**—For mowers, 18 in. to 24 in. Weight, 4 lbs. Each ..... **50c**

## GRASS HOOK OR SICKLE

**183B2122**—Solid steel, hardwood handle. Usual 25c retail value. Wt., about 15 oz. Each ..... **18c**

**183B2123**—Same pattern as above. Extra quality. Weight, about 1/2 lb. Each ..... **25c**

## WATER BALLAST LAWN ROLLER

**283B1640**—Welded steel drum. Roller bearings. With or without 60 lb. handle counter balance. Shipping weight, without counter balance, 60, 75, 125, 140 lbs. Wt., filled, 200 to 710 lbs.

Diam. Drum	Length, in.	With Counter Balance	Without Counter Balance
14	26	<b>\$7.20</b>	<b>\$6.25</b>
18	34	<b>9.10</b>	<b>8.10</b>
24	34	<b>11.65</b>	<b>10.65</b>
34	32	<b>12.90</b>	<b>11.90</b>

## TURF EDGER

**183B2035**—Polished steel blade. Solid shank. With 4 foot handle. Ship. wt., 2 1/2 lbs. Each ..... **43c**

## GRASS HOOK OR SICKLE

**183B2124**—High grade steel. Wood handle is offset, removing it from the ground, giving an easy grip without danger of injury to the hand. Weight, about 1/2 lb. Each ..... **25c**

## GRASS HOOK

**20c**

**183B2125**—With steel blade. Ribbed back. Polished cutting edge. Cuts from point to heel. With hardwood handle. Wt., 14 oz. Each ..... **20c**

## STEEL GRASS SHEARS

**15c**

**183B2120**—For cutting and trimming the edge of lawn. Forged from steel and tempered. Black finish. Bent handle. Length of blades, 5 1/2 in. Weight, 10 oz. Each ..... **15c**

## EXTRA QUALITY SHEARS

**183B2121**—Extra Quality Grass Shears. Trowel shank. Cutters steel. Carefully tempered, perfectly ground. Black, enameled handle. Polished edges. Weight, 10 oz. Each ..... **35c**

## LAWN TRIMMER

**183B2132**—Lawn Trimmer with long handle. Enables you to trim the grass alongside steel blade walks, fences, borders, etc., with ease and comfort. Has steel blades, 1 1/2 ft. long. Fits on wood roller. Has long handles. Ship. wt., 5 1/2 lbs. Each ..... **95c**

## LAWN EDGE TRIMMER

**183B2130**—A simple, convenient tool. For trimming the edge of lawns. The trimmer has a steel blade cuts a clean furrow 1 1/2 in. wide. Fits on wood roller. Has long handles. Ship. wt., 5 1/2 lbs. Each ..... **95c**



# FINE VALUES IN LAWN AND GARDEN TOOLS

## GARDEN BARROW HARDWOOD FRAME STEEL BRACED LEGS



**183B1690**—A popular low-priced barrow, full size and well made. Width of box at wheel, 16½ in.; width at handles, 20½ in.; depth, 11½ in.; length inside, 28 in. Steel wheel, diameter, 20 in.; width, 1½ in. Bottom is put on crosswise, well nailed to the handles, making a rigid frame. Sides are removable. Nicely painted in red. Average ship. wt., 46 lbs. Each...**\$2.45**

## RAILROAD BARROW HARDWOOD FRAME WOOD BRACED LEGS



**183B1694**—One of the best low priced wheelbarrows made. Made of selected seasoned hardwood. Frame is securely bolted and strongly braced. Tight, well made tray. Full size. Depth at handles, 10 in.; width, 34 in.; length on top, 26 in. Steel wheel, diam., 16 in.; width, 1½ in. Packed knocked down for shipment. Easily set up. Average ship. wt., 37 lbs. Each...**\$1.45**

## STEEL TRAY BARROW HARDWOOD FRAME WOOD BRACED LEGS



**183B1695**—A strong and substantial barrow, with a seamless pressed steel tray mounted on hardwood frame. Legs and braces extend above the handles and tray is securely bolted. Seamless tray is water tight; suitable for plaster, cement, etc. Size of tray, 32x32 x11 in. deep at wheel. Edge of tray is turned over a ½ in. steel rod to stiffen it. Fitted with 16x1½ in. steel wheel. Average ship. wt., 43 lbs. Each...**\$2.25**

## STRONG GARDEN BARROW SOLID STEEL LEGS A BARGAIN AT \$275



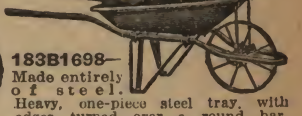
**183B1688**—One of the finest and best made barrows. Only first-class stock is used in the construction. Legs of this barrow are made of strong angle steel. Sides are removable. Dash strongly braced. Handles are of proper distance apart to evenly balance the load. Inside measurements of box, length, 28 in.; width at handles, 20½ in.; width at wheels, 16½ in.; depth, 11½ in. Well seasoned wood frame. Large, 20x1½ in. steel wheel with wide tire, and solid steel axle. All neatly painted, striped and varnished. Regular \$4.00 value. Average shipping weight, 49 lbs. Each...**\$2.75**

## ALL BOLTED BARROW HARDWOOD FRAME \$1.50 BENT STAVE TRAY



**183B1697**—One of the best and cheapest all-bolted wheelbarrows on the market. Tray made up of narrow boards, which will not split like wide boards. Two steel bolts pass clear through each stave and staves can always be kept drawn tightly together. One stave may be broken out completely without destroying shape of tray, while with some barrows the entire tray goes to pieces as soon as one stave is broken. Length of tray, 33 in. Width, 27 in. Greatest depth, 7 in. Excellent value. Knocked down for shipment. Easily set up. Average ship. wt., 40 lbs. Each...**\$1.50**

## TUBULAR BARROW STEEL FRAME IN THREE SIZES STEEL TRAY \$3.45



**183B1698**—Made entirely of steel. Heavy, one-piece steel tray, with edges turned over a round bar. Greatest depth at the front end, throwing heaviest part of load on the wheel. Handles of heavy steel tube in one piece. Braces securely bolted and will dump forward and stand the hardest usage. Steel wheel, 18x1½ in. In three sizes. (Give Size.)

Size...	4	5	12
Length, Tray...	32 in.	37 in.	43 in.
Width, Top...	28 in.	29 in.	33 in.
Front...	7 in.	9 in.	12 in.
Capacity	3 cu. ft.	4 cu. ft.	6 cu. ft.
Average Ship. wt.	62 lbs.	65 lbs.	85 lbs.
Each...	\$3.45	\$3.75	\$4.95

## FORGED GARDEN RAKES



**183B1980**—Forged from one piece of steel without a weld. With bow brace and long handles. Best quality. 12 teeth. Ship. wt., 3 lbs. Each...**48c**  
14 teeth. Ship. wt., 3½ lbs. Each...**53c**

## FORGED GARDEN RAKES



**183B1982**—Head and teeth forged from one piece of solid steel, without a weld and will not break at shank. Nicely finished—with long handle. Give size. 12 teeth. Ship. wt., 3 lbs. Each...**40c**  
14 teeth. Ship. wt., 3½ lbs. Each...**44c**

## MALLEABLE GARDEN RAKES



**183B1984**—Garden Rakes. Made of malleable iron. Will not easily break. An excellent low priced rake which will give good service where heavy work is not necessary. Plain finish, with wood handle. 12 teeth. Ship. wt., 2 lbs. Each...**15c**  
14 teeth. Ship. wt., 2½ lbs. Each...**17c**

## WIRE LAWN RAKE



**183B1988**—For grass or leaves. One of the strongest rakes made. Head, 20½ in. with 24 heavy wire teeth extending through both sides of head, and are curved to prevent digging the ground. All nicely tinned. Either side can be used. Socket is of malleable iron with hardwood handle. Shipping weight, 3 lbs. Each...**24c**

## WOOD LAWN RAKE



**183B1990**—Lawn Rake. Hardwood curved head, which throws the grass to the center of the rake and makes it easy to handle. The wooden teeth will not shrink from place or fall out. Will not dig up the lawn. Nicely finished. Length of head, 28 in., with 26 teeth. Shipping weight, 2½ lbs. Each...**38c**

## GARDEN SOCKET HOE



**183B2000**—Extra quality. Polished 7-inch steel blade. Solid socket. Length handle, 4½ feet. Shipping weight, 2½ lbs. Each...**38c**

## GARDEN SHANK HOE



**183B2001**—Standard grade. Polished 6½-in. steel blade. Plain ferrule. Length handle, 4½ feet. Shipping weight, 2 lbs. Each...**32c**

## GARDEN HOE



**183B2010**—Polished steel blade. Width, 4½ feet. Riveted to shank. Length handle, 4½ feet. Shipping weight, 2½ lbs. Each...**32c**

## WEEDING HOES



**183B2012**—Malleable Iron Teeth. Steel blade. Length handle, 4½ feet. 4-teeth. Width, 3½ in. Shipping weight, 2 lbs. Each...**20c**  
6-teeth. Width, 5 in. Shipping weight, 2½ lbs. Each...**23c**

## MORTAR HOE



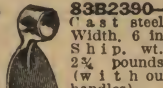
**183B2005**—Extra quality. Polished 10-inch steel blade, with two holes. Solid socket. Length handle, 6 feet. Shipping wt., 2 lbs. Each...**62c**

## FORGED PLANTERS HOE AND HANDLES



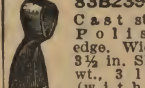
Oval eye, 2x1½ in. steel blade. Wt., 1½ to 1½ lbs. Without handles. **183B2030**—Width, 7 in. Each...**20c**  
**183B2031**—Width, 8 in. Each...**25c**  
**183B2032**—Handles to fit. Length, 5 ft. Wt., 2 lbs. Each...**15c**

## HAZEL HOES



**183B2390**—Cast steel. Width, 6 in. Ship. wt., 2½ pounds. (with out handles). Each...**40c**  
**183B2391**—Handles for Hazel hoes. Length, 54 in. Wt., 2½ lbs. Each...**15c**

## GRUB HOES



**183B2394**—Cast steel. Polished edge. Width, 3½ in. Ship. wt., 3 lbs. (with out handle). Each...**28c**  
**183B2395**—Width, 3½ in. Ship. wt., 3½ lbs. (without handle). Each...**30c**

## CULTIVATOR HOE



Spring tempered steel prongs, ¼ in. Adjustable to straddle rows. Length, handle, 4½ ft. Ship. wt., 2 lbs. and 2½ lbs. **183B2016**—With 3 prongs. Each...**42c**  
**183B2018**—With 5 prongs. Each...**52c**

## WEEDING HOE



**183B2014**—Tempered bright steel blades. Width, 8 in. Malleable socket riveted on. Long handle. Weight, 2½ lbs. Ship. wt., 2 lbs. Each...**17c**

## SCUFFLE HOE



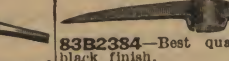
**183B2038**—Polished steel blade. Width, 8 in. Malleable socket riveted on. Long handle. Weight, 2½ lbs. Each...**30c**

## RAILROAD PICKS



**183B2380**—Best quality cast-steel bits, tempered points. Large oval eye. Weight, 5 to 6 lbs. Each...**30c**

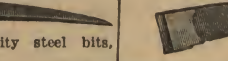
## DRIFTING PICKS



**183B2384**—Best quality steel bits, black finish.

No.	Wt. lbs.	Each
2	4	30c
3	4½	32c
4	5	35c

## STEEL MATTOCKS



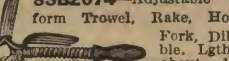
**183B2400**—Long Cutter, cast-steel. Polished sharpened edges. Size of blade, 8½x4½ in. Size of cutter, 6x3 inches. Weight, 5½ lbs., without handles. Each...**38c**

## SHORT CUTTER MATTOCKS



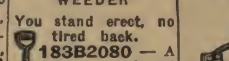
**183B2401**—Short Cutter Mattocks. Cast steel. Polished sharpened edges. Size of blade, 8½x4½ in. Size of cutter, 4½x3 in. Weight, 5 lbs. without handles. Each...**35c**

## COMBINATION TOOL 25c



**183B2074**—Adjustable to form Trowel, Rake, Hoe, Fork, Dibble. Lgh., about 12 in. Wt., 1 lb. Each...**25c**

## PIQUA LAWN WEEDER



You stand erect, no tired back. **183B2080**—A very practical and efficient tool for pulling weeds and removing the root. Made of steel with a sharp blade. With this tool it is easy work to keep your lawn free of weeds. Hardwood handle. Length, 3 ft. 8 in. Wt., 2½ lbs. Each...**65c**

## EASY GARDEN WEEDER



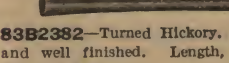
**183B2082**—For speed and ease work this weeder surpasses anything of the kind. Double edged, to cut when pushed or pulled. Steel blade, about 8x2 in. Long hardwood handle, 3 ft., about 3 lbs. Wt., about 3 lbs. Each...**48c**

## POTATO HOOK



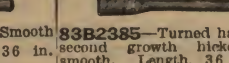
**183B1970**—With 4 bent oval steel tines. Width, 6 in. Securely attached to handle. Length, handle, 4½ ft. Wt., 3½ lbs. Each...**40c**

## RAILROAD PICK HANDLES



**183B2382**—Turned Hickory. Smooth and well finished. Length, 36 in. second growth hickory. Finished smooth. Length, 36 in. Weight, 2 lbs. Each...**12c**  
Per doz...**\$1.35**

## DRIFTING PICK HANDLES



**183B2385**—Turned handles. Selected second growth hickory. Finished smooth. Length, 36 in. Weight, 2 lbs. Each...**12c**  
Per doz...**1.50**

## GARDEN TROWEL 4c



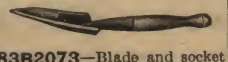
**183B2070**—Wrought steel, 6 in. blade. Wood handle. Weight, 4 oz. Each...**4c**

## GARDEN TROWEL 15c



**183B2072**—Forged Steel Garden Trowel. Extra quality. Length of blade, 6 in. Wt., 8 oz. Each...**15c**

## LONG HANDLE TROWEL



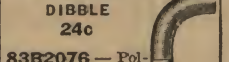
**183B2073**—Blade and socket in one piece. Convenient and strong. Blade, 6x3½ in. Hardwood handle, 8 in. Wt., ½ lb. Each...**18c**

## WEEDING HOOK



**183B2075**—Malleable Hook. Wood handle. Nicely tinned. Length, 10 in. Wt., 4 oz. Each...**6c**

## PLANTING DIBBLE 24c



**183B2076**—Polished iron point. Wood handle. For transplanting. Wt., 12 oz. Each...**24c**

## HAND WEEDER



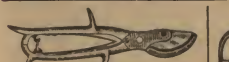
**183B2078**—With a steel blade. Sharp edges. Cut both ways. Weight, 4 oz. Each...**12c**

## PRUNING SHEARS



**183B2140**—Buckeye Pruning Shears. 22 in. hardwood handle. Weight, 2½ lbs. Each...**52c**

# STANDARD PRUNING SHEARS AND SAWS AT A SAVING



**183B2100**—Pruning Shears or Sheep Toe Clippers. Steel blade. Malleable handle. Brass springs. Weight, 14 oz. Each...**25c**



**183B2102**—Volute Spring Pruning Shear. Malleable iron handles. Steel blades. Weight, 12 oz. Each...**28c**



**183B2104**—Loop Pruning Shear. Handles of malleable iron. Blades of best steel. Wt., about 14 oz. Each...**30c**



**183B2105**—California pattern. Extra quality. Black finish, with polished blades. Volute springs. Wt., 14 oz. Size, 9 in. Each...**25c**  
**183B2106**—Same as above, but extra quality, finely nickel plated. Each...**55c**



**183B2110**—One of our most popular shears. Has an improved ratchet lock nut to take up the wear. Polished steel blade. Length, 9 in. Weight, 14 oz. Each...**38c**



**183B2111**—California Pattern Pruning Shear. Full polished. Improved ratchet lock nut. Extra quality polished steel blades. Brass spring. Length, 9 in. Wt., 14 oz. Each...**60c**



**183B2112**—Forged from solid steel. A strictly first class tool. Vineyard men claim it cuts much easier and smoother than any other. Length, 8½ in. Weight, 12 oz. Each...**72c**



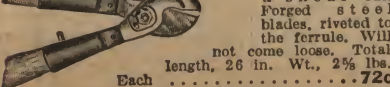
**183B2131**—Swiss Pattern. Best quality crucible steel blades. Ground convex and tempered. With extra blade. Double brass spring. Malleable handle. Adjusting nut. Full polished. Length, 8½ in. Wt., about 1 lb. Each...**90c**

## (NOTCHED) HEDGE SHEARS EXCELLENT VALUES



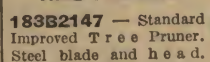
**183B2142**—Extra Quality cast steel blades, with notch for cutting branches. Hardwood handles. Wt., 3½ to 4½ lbs. Give size. Length of blade, in. 8 9 10 12  
Each...**85c \$1.10 \$1.20 \$1.75**

## PRUNING OR HEDGE SHEARS



**183B2145**—Has a shear cut. Forged steel blades, riveted to the ferrule. Will not come loose. Total length, 26 in. Wt., 2½ lbs. Each...**72c**

## TREE PRUNERS



**183B2147**—Standard Improved Tree Pruner. Steel blade and head. Complete with wood pole. Pruning can be done standing on the ground, without climbing or using ladder.

Length feet	Aver. wt., lbs.	Each
6	2½	43c
8	3½	45c
10	4½	50c
12	5½	55c

## 383B2154 - Extra

Knives for above pruners. Each...**9c**



## TELEPHONE PRUNER



**183B2158**—Malleable head with steel blade. Socket for pole. A spring reopens the blade. Without pole or rope. Wt., 1½ lbs. Each...**70c**  
Extra blades. Wt., 2 oz. Each...**8c**  
Extra springs. Wt., 1 oz. Each...**8c**

## PRUNING HOOK AND SAW



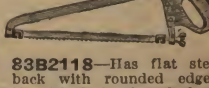
Knife and saw are hand made, from the highest quality steel. Malleable iron frame. Length, with blade, 18½ in. Blade is securely fastened to the hook and can be easily detached. Can be used with or without pole. Pole not included. **183B2113**—Pruning hook and saw. Weight, about 1½ lbs. Each...**\$1.20**  
**183B2114**—Pruning hook only. Wt., about 1½ lbs. Each...**70c**

## FOLDING PRUNING SAW



**183B2116**—Blade can be firmly clamped at three different angles to suit the work. A very convenient and useful saw for difficult places. Length of steel blade, 12 in. Varnished hardwood handle. Filed and set. Wt., about ½ lb. Each...**53c**

## SWIVEL BLADE PRUNING SAW



**183B2118**—Has flat steel back with rounded edges. Varnished hardwood handle. The swivel ends permit placing the cutting blade in any position. Depth of frame, at handle, 4½ in.; at point, 1½ in. Filed and set. Tightened by thumb nut. Wt., about ¾ lb. Each...**\$1.05**

SEE INDEX FOR OTHER PRUNING SAWS



# SHOVELS OF QUALITY AT LOW PRICES

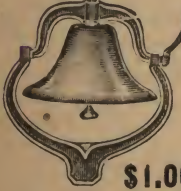
<b>STEEL SHOVEL</b> <b>183B1798</b> —Hollow back, square point, D handle. Full polished. Blade, 9½ x 11½ in. Ship. weight, each, 4½ lbs. Each \$0.43 Doz. 4.95 <b>43c</b>	<b>STEEL SHOVEL</b> <b>183B1802</b> —Socket strap, square points, D handle. Crucible steel. Blade, 9½ x 11½ in. Full polished. Ship weight, each, 5 lbs. Each \$0.70 Doz. 8.25 <b>70c</b>	<b>MAYNARD PATTERN</b> <b>183B1804</b> —Steel shovel. Solid socket. Square point. D handle. Full polished blade. Width, 9½ inches; length, 12 in. Shipping weight, 5½ lbs. Each .92c <b>92c</b>	<b>STEEL SHOVEL</b> <b>183B1805</b> —Socket strap. Round point. D handle. Crucible steel. Blade, 9½ x 12½ in. Full polished. Ship. weight, each, 5 lbs. Each \$0.70 Doz. 8.25 <b>70c</b>	<b>MAYNARD PATTERN</b> <b>183B1806</b> —Steel shovel. Solid socket. Round point. D handle. Full polished blade. Width, 9½ in. Length, 12 in. Ship. weight, 5½ lbs. Each .92c <b>92c</b>	<b>COAL SHOVEL</b> <b>183B1810</b> —Hollow back. D handle. Black finish. An excellent sand, grain or coal shovel. Width of blade, 11½ in. Length, 14 in. Ship. weight, 5½ lbs. Each .45c <b>45c</b>	<b>Grain and Coal Scoops Western Pattern</b> <b>183B1820</b> —Steel Scoop. Hollow back. Best crucible steel. Full polished. D handle. Ship. wt., 6½ to 8 lbs. Each, 16½ to 18½ in. <table border="1"> <tr> <th>No.</th> <th>Width of Blade. In.</th> <th>Each</th> </tr> <tr> <td>6</td> <td>13</td> <td>58c</td> </tr> <tr> <td>7</td> <td>13½</td> <td>62c</td> </tr> <tr> <td>8</td> <td>13½</td> <td>65c</td> </tr> <tr> <td>9</td> <td>14½</td> <td>68c</td> </tr> <tr> <td>10</td> <td>14½</td> <td>70c</td> </tr> </table> <b>GIVE SIZE</b> <b>58c</b>	No.	Width of Blade. In.	Each	6	13	58c	7	13½	62c	8	13½	65c	9	14½	68c	10	14½	70c	<b>STEEL SPADE</b> <b>183B1824</b> —Socket strap. Square points. D handle. High grade crucible steel. Blade, 7½ x 12 in. Full polished. Ship. wt., each, 5½ lbs. Each .85c Doz. 8.25 <b>183B1825</b> —Plain back. Square points. D handle. Crucible steel. Full polished. Ship. wt., each, 5 lbs. Each .80c Doz. 7.10 <b>60c-70c</b>	<b>LONG HANDLE SPADE</b> <b>183B1828</b> —Steel Spade. Hollow back. Square points. Long handle. Blade, 7½ x 12 in. Full polished. Ship. wt., each, 5½ lbs. Each .43c Doz. 4.95 <b>43c</b>
No.	Width of Blade. In.	Each																								
6	13	58c																								
7	13½	62c																								
8	13½	65c																								
9	14½	68c																								
10	14½	70c																								
<b>LONG HANDLE SPADE</b> <b>183B1830</b> —Steel Spade. Socket strap. Square point. D handle. 7½ x 12 in. Full polished. Ship. Wt., 5 lbs. Each 60c Per doz. \$7.10 <b>60c</b>	<b>Diamond Pointed Spade</b> <b>183B1832</b> —Steel Spade. Socket strap. Diamond point D handle. 7½ x 12 in. Full polished. Ship. Wt., 5 lbs. Each 85c <b>85c</b>	<b>DRAIN SPADE</b> <b>183B1834</b> —Socket strap. Round point. D handle. High grade crucible steel. Full polished. Concave blade. The blades taper from 5½ inch wide at the top to 4½ in. wide at the point. Ship. wt. 4½ to 5½ lbs. Give size. Length, 18 in. Each 90c Length, 20 in. Ea. 95c Length, 22 in. Ea. \$1.00 <b>90c</b>	<b>POST HOLE SPADE</b> <b>183B1836</b> —Socket strap. Square point. D handle. Crucible cast steel. Full polished concave blade. Width blade, 6½ in. at top, 6 in. at bottom. Shipping wt., 5½ lbs. Give size. Length, 18 in. Ea. 90c Length, 20 in. Ea. 95c Length, 22 in. Ea. \$1.00 <b>90c</b>	<b>DITCHING AND TILING SPADE</b> <b>183B1841</b> —Solid forged steel. Skeel on Spade. Especially adapted for mucky and sticky soil. Full polished. Give size. Size 6 x 18 in. Ship. wt., 5 lbs. Each \$1.75 Size, 6 x 20 in. Ship. wt., 5½ lbs. Each \$1.80 <b>\$1.75</b>	<b>STEEL DITCHING SPADE</b> <b>183B1842</b> —High carbon steel. It is light in weight, yet stiff and rigid, and is particularly adapted for digging in mucky, sticky, soil. Full polished. Give size. Size, 6 x 18 in. Shipping wt., 5½ lbs. Each \$1.40 Size, 6 x 20 in. Ship. wt., 5½ lbs. Each \$1.45 <b>\$1.40</b>	<b>LONG HANDLE SHOVEL</b> <b>183B1846</b> —Steel Shovel. Plain back. Square points. Long handle. Crucible steel. Blade 9½ x 11½ in. Ship. weight, each 5 lbs. Each .60c Doz. \$7.10 <b>60c</b>	<b>LONG HANDLE SHOVEL</b> <b>183B1847</b> —Steel Shovel. Plain back. Round point. Long handle. Crucible steel. Blade 9½ x 11½ in. Ship. wt., each 5½ lbs. Each .60c Doz. \$7.10 <b>60c</b>	<b>MINING SHOVEL</b> <b>183B1853</b> —Steel. Round Point. Long Handle. Blade 9½ x 11½ in. Ship. wt., each 5 lbs. Each .65c Per doz. \$7.50 <b>65c</b>	<b>LONG HANDLE SHOVEL</b> <b>183B1850</b> —Maynard Pattern steel shovel. Solid socket. Round point. Long handle. Full polished blade. Width, 9½ in. Length, 12 in. Best crucible steel. Ship. wt., 6 lbs. Each .92c <b>92c</b>	<b>DRAIN CLEANER</b> <b>183B1870</b> —Adjustable Drain Cleaner. Strong and substantial. Handle locks firmly at any angle. Polished concave steel blades. Blade, 5 x 15 in. Ship. wt., 6 lbs. Each 56c <b>56c</b>																
<b>Furnace Scoop</b> <b>183B1863</b> —Steel Furnace Scoop. Wood D handle. Black finish. Width 9 in. Length 14 in. Ship. wt., 4½ lbs. Each. .40c <b>40c</b>	<b>Steel Snow Shovel</b> <b>183B1862</b> —Long Handle Steel Snow Shovel. Makes a good general purpose shovel. Black finish. Width, 11 in. Length, 14½ in. Ship. Wt., 5 lbs. Each .30c <b>30c</b>	<b>Furnace Ash Sifter Shovel</b> <b>183B1861</b> —Sifts ashes by working it back and forth in ash pit of furnace with draft open. Saves coal and clothes. Heavy steel wire, well made. Width, 11½ in. Shipping wt., 4 lbs. Each .90c <b>90c</b>	<b>Wire Vegetable Scoop</b> <b>183B1890</b> —Made of heavy steel wire, galvanized. Steel handle socket. A strong, well made scoop, suitable for vegetables, handling fish, coke, coal, etc. Width, 13 inches. Ship. wt., 6½ lbs. Each \$1.15 <b>\$1.15</b>	<b>Vegetable Fork</b> <b>183B1884</b> —With 8 Tines. length 15½ in. Width 1½ in. Each .95c <b>95c</b>	<b>Coke Forks</b> <b>183B1880</b> —With 10 Tines. Ship. wt., 8 lbs. Each .50c <b>50c</b>	<b>Shovel Handles</b> <b>183B1901</b> —Shovel Handles. A-I-X Quality. Per doz., \$2.25 Ea. 20c <b>20c</b>	<b>Steel Grain Scoops</b> <b>183B1895</b> —Half bushel scoop. Ship. wt., 8½ lbs. Ea. 98c <b>98c</b>																			
<b>Shovel Handles</b> <b>183B1902</b> —A-I-X Quality. Per doz. . . \$2.15 Each. .19c <b>19c</b>	<b>SCOOP HANDLES</b> <b>183B1903</b> —A-I-X Quality. Each . . . 22c Per doz. \$2.30 <b>230c</b>	<b>LONG SHOVEL HANDLES</b> <b>183B1911</b> —A-I-X Quality. Each . . . 19c Per doz. \$1.95 <b>195c</b>	<b>LONG SPADE HANDLES</b> <b>183B1914</b> —A-I-X Quality. Each . . . 16c Per doz. \$1.70 <b>170c</b>	<b>Spade Step</b> <b>183B1845</b> —Malleable iron, complete with bolts ready to attach. Wt., 12 oz. Each . . . . .8c <b>8c</b>																						

## HIGH GRADE TOOLS FOR SETTING UP FENCE POSTS


<b>EUREKA DIGGER</b> <b>180B1560</b> —Eureka Pattern Post-Hole Digger. With split hardwood handles. Cast steel tempered 9 in. blades. With strong malleable iron shanks. One of the best low priced diggers obtainable. Length, 5 ft. Average shipping wt., 8½ lbs. Each . . . 60c <b>60c</b>	<b>INVINCIBLE DIGGER</b> <b>180B1562</b> —Cuts fast and holds its edge. Blades and shanks one piece tempered high carbon steel. Length of blades, 10 in. Hardwood handles are separate and easily grasped by the hands. Length, 5 ft. Average shipping wt., 9 lbs. Each. . . 70c <b>70c</b>	<b>ATLAS DIGGER</b> <b>180B1564</b> —The arrangement of the hinges causes the blades to close without opening the handles very far, so the operator can dig a hole almost full length and retain a uniform size. High carbon steel. Hardwood handles. Length, 59 in. Average shipping wt., 10 lbs. Each . . . . .68c <b>68c</b>	<b>SELF CLEANING DIGGER</b> <b>180B1567</b> —Will work perfectly in any soil. Blades are best cast steel, cleaner rods of spring steel, and all castings are malleable iron. With hardwood handles. Length, 5 ft. Average shipping wt., 10 lbs. Each . . . \$1.50 <b>\$1.50</b>	<b>POST HOLE AND WELL AUGERS</b> <b>180B1574</b> —Iwan pattern Auger, unexcelled for quick and easy work. Is suitable for all kinds of soil, wet or dry. Also adapted for boring shallow wells, by simply unscrewing the handle and adding more pipe to the iron pipe shank. High carbon steel blades. Strong malleable iron cross piece. Total length, 4 to 6 ft., depending on diameter. <table border="1"> <tr> <th>Size Inches</th> <th>Average Ship. Wt.</th> <th>Each</th> </tr> <tr> <td>6</td> <td>8½</td> <td>\$1.25</td> </tr> <tr> <td>8</td> <td>9½</td> <td>1.35</td> </tr> <tr> <td>10</td> <td>10½</td> <td>1.45</td> </tr> </table>	Size Inches	Average Ship. Wt.	Each	6	8½	\$1.25	8	9½	1.35	10	10½	1.45	<b>RAPID POST HOLE AUGERS</b> <b>180B1572</b> —Toothed cutter for any soil, wet or dry. Will not clog. High grade steel blades. Digs fast and stays sharp. Operated with comparative ease. Strong malleable iron cross piece. Length of iron pipe shank, 3 ft. Hickory cross handle. Total length, 44 in. <b>180B1570</b> —Size, 8 in. Average shipping wt., 9½ lbs. Each . . . \$1.05 <b>180B1571</b> —Size, 9 in. Average shipping wt., 9½ lbs. Each . . . \$1.10 <b>180B1573</b> —Size, 10 in. Average shipping wt., 10½ lbs. Each . . . \$1.15	<b>VAUGHAN'S POST HOLE AUGERS</b> <b>180B1581</b> —Post-hole Augers with solid steel blades. Has long straight point to keep auger boring true. Stem is made of wrought steel pipe. Total length, about 44 inches. Hardwood top cross handle. Average shipping wt., 6 lbs. Give size. <table border="1"> <tr> <th>Size</th> <th>Each</th> </tr> <tr> <td>6 in. . . . .</td> <td>55c</td> </tr> <tr> <td>7 in. . . . .</td> <td>59c</td> </tr> <tr> <td>8 in. . . . .</td> <td>63c</td> </tr> <tr> <td>9 in. . . . .</td> <td>67c</td> </tr> </table>	Size	Each	6 in. . . . .	55c	7 in. . . . .	59c	8 in. . . . .	63c	9 in. . . . .	67c	<b>POST HOLE TAMPER AND DIGGER</b> <b>180B1590</b> —Forged solid steel with tempered ends. Useful for setting fence posts, breaking and prying out rocks. Useful for farmers, plumbers, street workers, etc. One end flattened for tamping, the other has sharpened blade. Length, about 5½ ft., width of blade, 3 in. Average shipping wt., 18 lbs. Each . . . . .90c <b>90c</b>	<b>IRON POST MAULS</b> <b>180B1585</b> —Sperry pattern, with taper eye. Made of cast iron. Painted black. (cannot slip off. Complete with 3 foot hickory handles. Give size. <table border="1"> <tr> <th>Approx. Ship. Wt.</th> <th>Each</th> </tr> <tr> <td>10 lbs.</td> <td>25c</td> </tr> <tr> <td>13 lbs.</td> <td>30c</td> </tr> <tr> <td>16 lbs.</td> <td>35c</td> </tr> <tr> <td>18 lbs.</td> <td>40c</td> </tr> <tr> <td>20 lbs.</td> <td>45c</td> </tr> </table>	Approx. Ship. Wt.	Each	10 lbs.	25c	13 lbs.	30c	16 lbs.	35c	18 lbs.	40c	20 lbs.	45c	<b>IRON TAMPERS</b> <b>180B1592</b> —Square cast iron Tampers. Smooth faced, well proportioned and correctly balanced. For dirt, sod, cement work, etc. With hardwood handle. Length, about 4 ft. Give size. <table border="1"> <tr> <th>Size</th> <th>Average ship. wt.</th> <th>Each</th> </tr> <tr> <td>6 x 6 in.</td> <td>12 lbs.</td> <td>.48c</td> </tr> <tr> <td>8 x 8 in.</td> <td>17 lbs.</td> <td>.68c</td> </tr> <tr> <td>10 x 10 in.</td> <td>22 lbs.</td> <td>.85c</td> </tr> </table>	Size	Average ship. wt.	Each	6 x 6 in.	12 lbs.	.48c	8 x 8 in.	17 lbs.	.68c	10 x 10 in.	22 lbs.	.85c
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## FAMOUS CRYSTAL METAL FARM BELLS

CONSIDERED THE BEST FARM BELL MADE



**\$1.00**



**\$2.75**

Illustration of Sizes 1, 2, 3. Attach to post

NOTE:—Our Bells are Full Size and Full Weight.

Illustration of Size 4. Requires a platform.

Article Number	Mfrs. Size	Diameter	Average Weight Bell Only	Average Ship. wt. Complete	Price Complete
185B4661	1	14½ in.	24 lbs.	38 lbs.	\$1.00
185B4662	2	16 in.	34 lbs.	50 lbs.	1.45
185B4663	3	18 in.	47 lbs.	70 lbs.	2.00
185B4664	4	19 in.	78 lbs.	105 lbs.	2.75



**\$1.65**



**\$1.65**



**87c**

**LAKESIDE VENEER SCRAPER**  
**85B720**—For scraping veneers and cabinet work, old paint or glue. Can be used as a Tooth Plane. Iron body. Steel, 3-in. cutter. Wt., 3½ lbs. Each . . . . .  
**85B721**—Extra cutters. Each . . . . .  
**85B722**—Toothed cutter for above plane with 32 teeth per inch. Each . . . . .20c

**LAKESIDE FLOOR SCRAPER**  
**85B724**—A substantial tool, with thick rubber cushion next to the blade, which prevents vibration. Hardwood handle; iron socket. With 3-in. steel blade. Any style blade can be used and held firmly with the wing nut. Regular \$1.00 value. Length, 14 in. Weight, 2 lbs. Each . . . . .70c  
**70c**

**CABINET SCRAPER**  
**85B726**—Raised iron handles. Length, 11 in. Tempered steel, 2½-in. blade. Wt., 2 lbs. Each . . . . .52c  
**52c**

**ADJUSTABLE CAB. SCRAPER**  
**85B728**—Ball joint, adjustable to any angle. Extra quality steel blade. Hardwood handle. Length, 9 in. Width, 3 in. Wt., 1½ lbs. Each . . . . .58c  
**58c**

**ADJUSTABLE CABINET SCRAPER, 70c**  
**85B729**—Stanley's No. 82. Will work in inaccessible places. Blade clamps in any position. Japanned iron frame. Length, 14½ in. Maple handle and knob. Tool steel, 3-in. cutter. Wt., 1½ lbs. \$1.00 value. Each . . . 70c  
**70c**

**UNIVERSAL SCRAPER**  
**85B730**—A turn of the handle locks blade at any angle. Steel blade. Polished hardwood handle. Wt., 1½ lbs. Each . . . . .87c  
**87c**

**CABINET SCRAPER**  
**85B734**—Polished saw steel. Assorted sizes up to 6 in. long. Wt., 4 oz. Each . . . . .5c  
**5c**

**EXTRA QUALITY SCRAPER**  
**85B735**—Finest steel, polished. Edges ground true and square. Size, 3 x 6 in. Wt., 4 oz. Each . . . . .17c  
**17c**



# HIGH GRADE STEEL FORKS AND SCYTHES

## STANDARD QUALITY HAY FORKS

Bent or Straight Handle  
Plain ferrules. Polished steel tines. Smooth handles. Ship. wt. 3 lbs.  
**183B1920**—Three lines. Length, 11½ in. Straight handle, 5 ft. Each...**35c**  
**183B1921**—Three lines. Length, 11½ in. Bent handle, 5 ft. Each...**38c**

## EXTRA QUALITY HAY FORKS

**183B1922**—Three lines. Length, 12 in. Polished steel. Straight handles. Strapped ferrules. Shipping wt., 2½ lbs. Handle, 4½ ft. Each...**52c**  
5 ft. Ea. **54c**

## STANDARD QUALITY HAY FORK

**183B1923**—Four steel tines. Length, 11½ in. Bent handle, 5 ft. Plain ferrule. Will give good service. Ship. wt., 3 lbs. Each...**42c**

## LAKESIDE EXTRA QUALITY HAY FORKS

### TEMPERED STEEL TINES SELECTED HANDLES

**183B1924**—Three 12 in. polished steel tines. Bent ash handles. Long strapped steel ferrule. Handles smoothly finished. Average shipping weight, 3 lbs. Length of handle... 4½ ft. **53c** 5 ft. **55c** 5½ ft. **57c**

### OUR EXTRA QUALITY

Our Lakeside Extra quality forks are made from high grade steel, with tempered and polished tines. Will give long and satisfactory service. Handles are of high quality, straight grained, seasoned ash. Smooth and nicely finished. The long strapped steel ferrule on the handle adds greatly to its strength.

### OUR STANDARD GRADE

Our Standard Quality forks are made from the same high grade steel as our Lakeside Quality. The handles are of seasoned straight grain hardwood, fitted with plain round tapering ferrules. An excellent fork that meets the demand for a medium priced article and will give satisfactory service.

## EXTRA QUALITY HAY FORKS

**183B1926**—Four polished steel tines; length, 12 in. Bent handles, smoothly finished. Strapped ferrules. Average shipping wt., 3 lbs. Handle, Ea. 4½ ft...**58c** 5 ft...**60c** 5½ ft...**62c**

## EXTRA QUALITY HEADER FORKS

**183B1928**—Four 15 in. polished steel tines. Bent handles. Strapped ferrules. Average shipping wt., 4 lbs. Handle, Ea. 4½ ft...**74c** 5 ft...**76c** 5½ ft...**78c**

## EXTRA QUALITY ALFALFA FORKS

**183B1930**—Four 13 in. tines. Bent handles. Strapped ferrules. Average shipping wt., 3½ lbs. Handle, Ea. 5 ft...**70c** 5½ ft...**72c** 6 ft...**74c**

## EXTRA QUALITY BARLEY FORKS

**183B1932**—Four Bent tines. Bent handles. Strapped ferrules. With steel wire ball to prevent load from slipping off fork. Average shipping wt., 4½ lbs. Handle, Ea. 5 ft...**95c** 5½ ft...**98c**

## STANDARD QUALITY MANURE FORK

**183B1939**—With 11½ in. tines. Bent handles. 4½ ft. Plain ferrules. Average shipping wt., 3½ lbs. Tines. Ea. 4...**47c** 5...**65c** 6...**70c**

## EXTRA QUALITY MANURE FORKS

**183B1942**—With 12 in. tines. Bent handles. 4½ ft. Strapped ferrules. Average shipping wt., 3½ lbs. Tines. Ea. 4...**60c** 5...**76c** 6...**88c**

## STANDARD QUALITY MANURE FORK

**183B1950**—With 11½ in. tines. Malleable D handles. Plain ferrules. Average shipping wt., 4 lbs. Tines. Ea. 4...**46c** 5...**62c** 6...**70c**

## EXTRA QUALITY MANURE FORKS

**183B1952**—With 12 in. polished steel tines. Malleable D handles. Strapped ferrules. Average shipping wt., 3½ lbs. Tines. Ea. 4...**63c** 5...**82c** 6...**92c**

## STANDARD QUALITY SPADING FORK

**183B1960**—Four strong steel tines. Bronze finish. Polished points. Malleable D handles. Strapped ferrule. Plain ferrule. Average shipping wt., 4 lbs. Each...**48c**

## EXTRA QUALITY SPADING FORK

**183B1961**—With four heavy diamond back steel tines. Bent handle with malleable D top. Strapped ferrule. A strong fork that will stand hard use. Average shipping wt., 4½ lbs. Each...**68c**

## MANURE HOOK

**183B1972**—With 4 Bent oval steel tines. Width, 8 in. Securely attached 4½ ft. handle. Average ship. wt., 3 lbs. Each...**48c**

## HIGH GRADE FORK HANDLES

Second growth ash. Ship. wt., each 1½ to 2½ lbs.  
**183B2420**—Straight handles. Give size. Length, ft. 5...**\$1.15** 6...**\$1.30** 7...**\$1.50**  
**183B2423**—Bent handles. Give size. Length, ft. 4½...**\$1.25** 5...**\$1.45** 6...**\$1.60**  
**183B2425**—Manure fork handles. Length, ft. 4...**\$1.20** 4½...**\$1.30** 5...**\$1.40**

## HAY FORK FERRULES

**183B2430**—Plain Fork Ferrules for straight or bent hay fork handles. Even tapered to fit turned end of handle. Average wt., doz., 1½ lbs. Per dozen...**42c** Each...**4c**  
**183B2431**—Strapped Fork Ferrules for hay or manure fork handles. Holes drilled for rivet at top end. These ferrules will add strength to the handle. Average wt., dozen, 3 lbs. Per doz...**\$1.10** Each...**.10**

## Scythe Snath

Patent Loop  
**65c**  
**183B2214**—Made from selected seasoned timber. Properly shaped. Well finished and varnished. With patent loop and wrench. Length, 58 in. Average shipping wt., 3½ lbs. Each...**65c**

## Scythe Snath

Two Rings  
**70c**  
**183B2215**—Extra heavy, for bush or wood use. Made from selected timber. Finished and varnished. With two-ring fastener. Length, 58 in. Average ship. wt., 6½ lbs. Each...**70c**

## CLIPPER PATTERN SCYTHE

**183B2200**—Lakeside Scythe. Solid steel. Bronzed web. Polished back. Ship. wt., 2½ lbs. Each...**62c**  
**183B2202**—Lakeside Scythe. Solid steel. Double ribbed. A very stiff, light weight scythe and a great favorite. Natural oil finish, backs polished. Ship. wt., 2½ lbs. Each...**70c**

## DUTCH PATTERN SCYTHE

**183B2206**—Lakeside Scythe. Wide heel. Solid steel. Bronzed web. Polished back. Ship. wt., 2½ lbs. Each...**63c**  
**183B2222**—Flat, octagon shape. Each...**50c**  
**183B2223**—Oval shape. Each...**40c**  
**183B2220**—Oval Emory Scythe. Stone. Steel center. Length, 10 in. Wt., 6 oz. Each **6c** Per doz...**65c**

## Weed Scythe

**183B2210**—Lakeside Weed Scythes. Solid steel. Painted red. Edges polished. Ground sharp. Ship. wt., 2½ lbs. Each...**62c**  
**183B2212**—Lakeside Bush Scythes. Solid steel. Painted red. Edges polished. Ground sharp. Ship. wt., 2½ lbs. Each...**62c**

## STANDARD GRAIN CRADLE

**183B2218**—Morgan Pattern Cradle. Strictly first grade. With four fingers, wire braces, and ring fasteners. Complete, with best quality 45-inch steel scythe. Average ship. wt., 11½ lbs. Each...**\$2.25**

## CORN HUSKERS AND KNIVES

Pins and hooks on these huskers are made of steel. Mounted on extra quality leather and adjustable to fit over light or heavy glove. For right hand.

**THE UNIVERSAL HUSKER**  
**9c**  
**183B2300**—Corn Husker. Has concave hooks. Made entirely of steel, nickel-plated. Weight, each, 1½ oz. Right hand. Per doz...**\$1.00** Each...**.09**

**THE PERKINS' BOSS HUSKER**  
**18c**  
The slack is adjusted by means of clamp and nut, has sliding center sleeve. Weight, each, 2 oz. Each...**18c**

**STEEL HUSKING PIN**  
**8c**  
With sliding link adjustment. Leather guard and strap. Weight, each, 2 oz. Each...**8c** Per dozen...**80c**

**COMBINATION HUSKERS**  
**11c**  
With steel pin, heavy calfskin finger stall attached, protected with steel washers. Wt., each, 3 oz. Each...**\$0.11** Per dozen...**1.20**

**HOOK HUSKERS**  
**12c**  
**183B2310**—With heavy steel corrugated hook. Muleskin leather, two buckles and straps. Wt., each, 3 oz. Each...**\$0.12** Per dozen...**1.30**

**183B2312**—Heavy steel plate, adjustable corrugated hook. Heavy leather with three straps and buckles. Wt., each, 4 oz. Each...**\$0.25** Per dozen...**2.90**

**183B2314**—Heavy steel plate, with two adjustable steel hooks, plated. Extra wide heavy leather wrist band, three straps and buckles. A very strong, heavy husker for hard use. Wt., each, 5 oz. Each...**\$0.32** Per dozen...**3.65**

## SICKLE EDGE HAY KNIFE

With Adjustable Handle  
**183B2360**—The cutting edge is made in sections, riveted to a strong metal back. Has toothed edge. Which always remains sharp. It is one of the easiest cutting knives made. Ship. wt., 4½ lbs. Each...**85c**

**LIGHTNING HAY KNIVES**  
**75c**  
**183B2363**—Genuine Hiram Holt Lightning Hay Knife. The old original knife, made of highest grade steel and unsurpassed for rapid and effective work. Ship. wt., 4 lbs. Each...**75c**

**183B2364**—Lightning Pattern Hay Knife. Forged steel, well made. Ship. wt., 4 lbs. Each...**65c**

**SPEAR POINT HAY KNIFE**  
**183B2367**—Spear Point Hay Knife; forged steel blade, polished edge, extra quality. Ship. wt., 7½ lbs. Each...**85c**

## CORN KNIVES

**183B2320**—Clipper Corn Knife, forged steel, polished edge. Length of blade, about 16 in. Weight, 1½ lbs. Each...**15c**

**183B2322**—CORN KNIFE, forged steel blade. Blade about 16x3¼ in. Hardwood handle. Weight, 1 lb. 20c

## CORN HOOKS

**183B2324**—Forged steel blade. With serrated edge. A fast, easy cutting tool. Ship. wt., ¾ lbs. Each...**18c**

## BEEF TOPPER

**183B2328**—Beef topping knife, a popular pattern. Size of steel blade, about 10x2½ in. Wt., 10 oz. Each...**20c**

## HEATH'S UPRIGHT HAY KNIFE

**183B2365**—Blade is made in sections from the best tool steel. Has a draw cut, making it work easily and rapidly. Extra quality. Shipping wt., 4½ lbs. Each...**55c**

## BUSH HOOK

**183B2345**—Steel blade, polished edge. Full size hickory handle. Ship. wt., 3 lbs. Each...**64c**

## HEDGE KNIVES

**183B2340**—Forged steel blade with hickory handle, riveted through ferrule and shank; length of blade, 18 inches. Ship. wt., 3½ lbs. Each...**58c**

## THE "LAKESIDE" BRAND

The brand "LAKESIDE," on any mechanic's tool or implement, denotes that the article is of the highest quality, perfect in every detail. We believe our "LAKESIDE" tools to be equal or superior to any other brand at prices even higher than ours. They cost just as much to make as other well known brands, and we are able to sell them at our low prices only by eliminating extravagant advertising, travelling salesmen, and other expenses, which are unavoidable when marketing goods in the usual way.

You will make no mistake in buying "LAKESIDE" Tools. They will please you—always.

## STANDARD COW BELLS

**183B2850**—The shape of the bell is designed to produce the loudest sound possible. Copper plated, strong and substantially made. Average wt., ¾ to 2½ lbs. Usual 15c to 50c value. (Give size.)

Size	Mouth, Inches	Height, Inches	Dozen	Each
0	5½x3	7½	<b>\$3.65</b>	<b>31c</b>
1	4½x3	5½	<b>2.30</b>	<b>20c</b>
2	3½x2½	5	<b>1.75</b>	<b>15c</b>
3	2½x1½	2½	<b>.80</b>	<b>7c</b>

## SWISS PATTERN COW BELLS

**183B2854**—Made from pure bell metal; have a musical, sweet tone, clear and penetrating and can be heard a long distance. Wt., ¾ to 3½ lbs. Straps not included. Diam., 4 in. Ht., 3 in. Each...**\$0.48** Diam., 5 in. Ht., 4 in. Each...**.80** Diam., 6 in. Ht., 5½ in. Each...**1.40**

## SHEEP AND COW BELL STRAPS

Solid black harness leather; length, 25 in. XC with metal buckles.  
**95B6500**—¾ in. Shipping weight, each, about 2 oz. Each...**\$0.14**  
**95B6501**—¾ in. Shipping weight, each, about 3 oz. Each...**1.65**  
**95B6502**—1 in. Shipping weight, each, about 4 oz. Each...**\$0.17**  
Per dozen...**1.90**  
Cow Bell Straps, heavy black harness leather, 3 ft. long.  
**95B6503**—¾ in. Shipping weight, each, about 7 oz. Each...**\$0.26**  
Per dozen...**3.08**  
**95B6504**—¾ in. Shipping weight, each, about 9 oz. Each...**\$0.35**  
Per dozen...**4.00**  
**95B6505**—1 in. Shipping weight, each, about 12 oz. Each...**\$0.43**  
Per dozen...**4.83**

## SHEEP BELLS

Cast Bell Metal. Give a clear tinkling sound. Complete with leather straps. Wt., each, 5 to 8 oz.  
**83B2856**—Length, 1½ in. Mouth, 1½x1¼. Each...**\$0.17** Per dozen...**1.95**  
**83B2858**—Length, 1¾ in.; mouth, 1½x1½. Each...**\$0.20** Per dozen...**2.35**

## TURKEY BELLS

**83B2860**—Polished bell metal. Diameter 1¾ in. Complete with strap. Wt., each, 8 oz. Each...**9c** Per dozen...**98c**

## STOCK BELLS

**TEAM BELLS**  
**183B2862**—Copper plated sheet steel. Clear ring. Diameter, mouth, 3½ in. Wt., each, 6 oz. (Straps not included.) Each...**\$0.12** Per dozen...**1.25**

## OPEN POLISHED BELLS

**183B2864**—Cast bell metal. Polished. Suitable for a variety of purposes. Make good harness bells, sheep bells, etc. (Give size.)

Diam., Mouth	Weight, Each	Each	Dozen
2½ in.	3 oz.	<b>7c</b>	<b>\$0.80</b>
2½ in.	3 oz.	<b>11c</b>	<b>1.25</b>
2½ in.	4 oz.	<b>15c</b>	<b>1.60</b>
3 in.	6 oz.	<b>17c</b>	<b>1.80</b>
3½ in.	8 oz.	<b>25c</b>	<b>2.85</b>
3½ in.	10 oz.	<b>25c</b>	<b>2.85</b>

## HAND BELLS

### HAND BELLS

**183B2866**—Made of fine bell metal with a clear ring. Nicely polished and fitted with hardwood handle. Usual retail value, 15c to \$1.25. (Give size.)

Diameter	Weight	Each
2½ in.	3 oz.	<b>10c</b>
2½ in.	5 oz.	<b>17c</b>
3 in.	9 oz.	<b>32c</b>
4 in.	15 oz.	<b>53c</b>
5 in.	1½ lbs.	<b>90c</b>

## SWISS CHIME HAND BELLS

**183B2868**—Made from pure bell metal. Handsomely nickel plated. Finished handle with bolt extending entire length, with metal tips. Have a clear, rich tone. A splendid bell for milkmen. Regular 75c to \$2.50 value.

Diameter	Weight	Each
3½ in.	8 oz.	<b>\$0.47</b>
3½ in.	12 oz.	<b>.70</b>
4 in.	1½ lbs.	<b>1.20</b>
5 in.	2½ lbs.	<b>2.00</b>

## MILKMEN'S AND AUCTIONEER'S BELL

**183B2870**—Pure bell metal; extra heavy pattern. Highly polished. An excellent bell for auctioneers and milkmen. Polished hardwood handle, with ferrule and metal tip. Regular \$1.50 retail value. (Size 8.) Diam., 5½ in. Wt., 5½ lbs. Each...**\$1.15**



# ACCESSORIES FOR THE LIVE STOCK OWNER AT LOW PRICES

## PERFECT DEHORNER



**183B2605**—Simple, strong and well made. Blades are high grade tool steel, and can readily be sharpened or replaced. A powerful dehorner. Will easily cut a horn without cracking or crushing it. Opens 3 1/4 in. Average shipping weight, 15 lbs. Retail value, \$6.00.

Each ..... \$4.75

**183B2606**—Extra blades (per set of 2), average wt., 1 1/2 lbs.

Per set ..... \$1.20

## KEYSTONE DEHORNER



**183B2612**—Carte Dehorner. Has two V-shaped steel blades, which come together, giving four cutting blades. This gives a shear cut, clipping the horn clean and smooth. Has a powerful leverage and will clip any size with ease. Total length, 44 in., blades open, 3 1/4 in. Average shipping wt., complete, 21 lbs. Price, complete, with leader and rope, extra blades and screws.

Each ..... \$9.60

## LEAVITT'S V-BLADE CATTLE DEHORNER



**183B2600**—Large size. Cuts all around the horn. Steel knives cannot interlock or cut into each other. Opens 3 1/4 in. To insure good results the animal's head should be securely fastened. Average shipping weight, 15 lbs.

Each ..... \$4.70

**183B2601**—Extra blades (per set of 2). Weight, 1 1/2 lbs.

Each ..... \$1.80

**183B2602**—Leavitt's Medium Size Dehorner, opens 3 1/4 in., which is large enough for ordinary cattle. Otherwise the same construction as the large size shown above. Average shipping weight, 13 1/2 lbs.

Each ..... \$3.80

**183B2603**—Extra blades (per set of 2). Average weight, 1 1/2 lbs.

Each ..... \$1.70

## IMPROVED KEYSTONE DEHORNER



**183B2615**—Made extra heavy and strong with a taper rack, which gives knife its greatest power at the beginning of operation where it is most needed, as the hard surface of the horn presents the greatest resistance to the steel knife at the start. The entire instrument is nicely proportioned, comparatively light, yet strong and powerful. Total length, 46 in. Blades open, 3 1/4 in. Average shipping weight, complete, 20 lbs. Price, complete, with leader and rope, extra set of blades and screws.

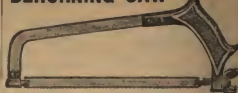
Each ..... \$11.20

## IMPROVED CONVEX DEHORNER



**183B2608**—Very simple in its mechanism. Consists of two castings and one steel cutting knife. Makes a quick, sharp, clean cut. Large enough for any size or shape of horn. Has hardwood handles. Blade can be replaced if damaged. Total length, 40 in. Blades open, 3 in. Shipping weight, 19 lbs. Price, complete, with leader and rope and one extra blade ..... \$4.70

## DEHORNING SAW

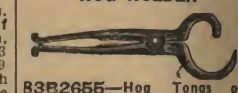


**183B2622**—Steel frame, iron handle. Tempered 10-in. steel blade. White nickel finish. Wt., about 1 lb. Excellent value. Each ..... \$3.70

**183B2624**—Extra 10-in. steel blades. Wt., per doz., about 6 oz. Each ..... \$7.00

Dozen ..... \$700

## HOG HOLDER



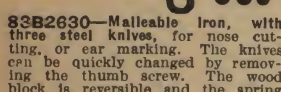
**183B2655**—Hog Tongue of holders. Malleable iron, indispensable for holding hogs when ringing, etc. Average wt., 1 1/2 lbs. 25c value. Each ..... \$1.70

## DOUBLE HOG HOLDER



**183B2658**—One end for small, one end for large hogs. Galvanized 7/16 in. steel. Strong and efficient. Size, about 12x5 in. Wt., 1 1/2 lb. Each ..... \$2.30

## HOG TAMERS



**183B2630**—Malleable iron, with three steel knives, for nose cutting, or ear marking. The knives can be quickly changed by removing the thumb screw. The wood block is reversible and the spring is enclosed. Finished in white nickel. Length, about 10 in. Wt., 1 1/2 lbs.

Each ..... \$3.00

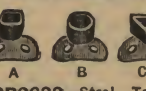
## HOG TAMERS



**183B2632**—Dr. Miller's Hog Nose Cutter. Will prevent the hog from rooting, does away with the rings and ringers. Japanned iron. Two different size steel cutters with each instrument. Weight, 1 1/2 lbs. Usual price, \$1.00.

Each, complete with 2 cutters ..... \$70c

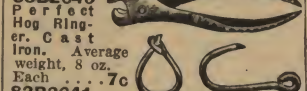
## EAR MARKING ATTACHMENTS



**183B2633**—Steel. To be used with Miller's hog tamer. Made in three styles and used for marking animals' ears. Full size of dies, 3/4 inch. Average weight, 1 oz.

Each (give style) ..... \$20c

## PERFECT RINGERS AND RINGS



**183B2640**—Perfect Hog Ringer. Cast iron. Average weight, 8 oz. Each ..... \$1.70

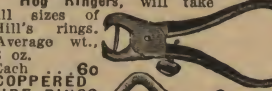
**183B2641**—Perfect Hog Rings. Average weight, 8 oz. Per box (100) ..... \$7c

Per dozen boxes ..... \$78c

**183B2642**—Coppered Wire Perfect Fig Rings (small). Average weight, weight, 7 oz. Box (100 rings) any size ..... \$7c

Per dozen boxes ..... \$78c

## HILL'S RINGERS AND RINGS

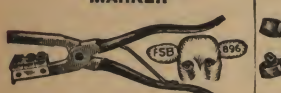


**183B2650**—Hill's Cast Iron Hog Ringers, will take all sizes of Hill's rings. Average wt., 8 oz. Each ..... \$1.60

**183B2651**—No. 1 for pigs. No. 2 for shoats. No. 3 for hogs. Average weight, 7 oz. Box (100 rings) any size ..... \$43c

Per dozen boxes ..... \$43c

## TATTOO EAR MARKER



For tattoo branding the inside of ear. Letters interchangeable. We furnish any letter or figure. Height of letter, 7/16 in. Holds three letters or figures. Weight, 1 1/2 lbs. Direction for marker on each bottle of tattoo oil.

**183B2660**—Marker with any three (3) letters or figures. Complete ..... \$1.90

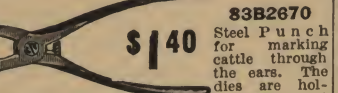
**183B2661**—Extra letters or figures. Each ..... \$30c

## TATTOO OIL

**183B2662**—For ear marker. Purple color. One bottle will mark 500 ears. Contains 2 oz. Shipping weight, 6 oz.

Per bottle ..... \$45c

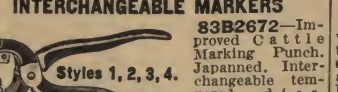
## CATTLE MARKING PUNCH



**183B2670**—Steel Punch for marking cattle. When used through the ears. The dies are hollow and cut easily, are not interchangeable. When always state the number of the die you wish. Length, 11 in. Weight, 1 1/2 lbs. Illustrations are about one-quarter actual size. We furnish in patterns only as illustrated. Usual retail value, \$2.00 and up.

Each (give number) ..... \$1.40

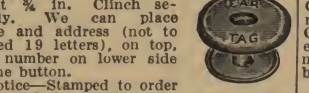
## INTERCHANGEABLE MARKERS



**183B2672**—Improved Cattle Marking Punch. Japanned. Interchangeable tempered dies. Length, 11 in. Average weight, 1 1/2 lbs. With one die. Each ..... \$1.35

**183B2673**—Extra Dies (Give style). Average weight, 1/2 oz. Each ..... \$25c

## ALUMINUM EAR BUTTONS



**183B2680**—Diameter about 3/4 in. Clinch securely. We can place name and address (not to exceed 19 letters), on top, and number on lower side of the button.

Notice—Stamped to order in 5 to 7 days and mailed direct to you from factory in Chicago, postage paid.

25 postpaid, for ..... \$1.15

50 postpaid, for ..... \$1.25

100 postpaid, for ..... \$1.35

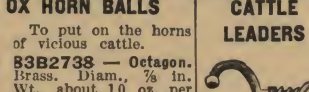
500 postpaid, for ..... \$15.00

1000 postpaid, for ..... \$27.00

**183B2681**—Punch-pliers for attaching buttons. Weight, 11 oz. Each, postpaid ..... \$85c

Write name and number wanted plainly to avoid errors. Prices are postpaid.

## ALUMINUM STOCK MARKS



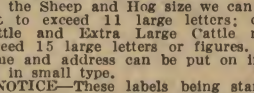
Diameter, 3/4 in. Furnished with one, two or three letters or figures, stamped only on one side. Fastened with any of our hog rings. Give letters or figures wanted. Shipping weight per 100, 8 ounces.

**183B2675**—Per 100. Postpaid ..... \$88c

**183B2676**—Per 50. Postpaid ..... \$50c

Mailed from factory near Chicago.

## METAL EAR LABELS



Intended to attach to the animal's ear. On the Sheep and Hog size we can stamp not to exceed 11 large letters; on the Cattle and Extra Large Cattle not to exceed 15 large letters or figures. On the Cattle sizes only, name and address can be put on if not exceeding 22 letters, but in small type.

NOTICE—These labels being stamped to order, will cause a delay of 5 to 7 days.

NOTE—Our prices are for labels postpaid.

With Name Per 100 \$1.00

Per 50 .75

Per 25 .60

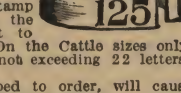
Shipped from factory in Chicago, parcel post charges paid.

Made with oval die for perforating the animal's ear and used in connection with our metal ear labels.

**183B2688**—For Sheep and Hog labels. Average weight, 10 oz. Each ..... \$60c

**183B2689**—For Extra Large Cattle labels. Average weight, 10 oz. Each ..... \$1.00

## 25



**183B2685**—Sheep and Hog Size. Average weight, 10 oz. Each ..... \$1.50

**183B2686**—Cattle Size. Average weight, 10 oz. Each ..... \$2.00

**183B2687**—Extra Large Cattle Size. Average weight, 10 oz. Each ..... \$2.50

Per 100 bands ..... \$1.00

Per 50 bands ..... \$1.25

Per 25 bands ..... \$1.50

No. 1 to 25 ..... \$13c

No. 26 to 50 ..... \$25c

No. 51 to 100 ..... \$40c

No. 1 to 100 ..... \$40c

We do not sell less than 25, and prices are for bands numbered consecutively from 1 up. We do not furnish them in any other way.

## ALUMINUM LEG BANDS OR MARKERS



**183B2690**—Poultry Leg Bands. Made of aluminum. Very light and will fit any size fowl. If your poultry stray from home or become mixed with your neighbors' fowls you can easily identify them. Bands numbered from one up. Weight, 3 oz. per 100.

Per 25 bands ..... \$13c

No. 1 to 25 ..... \$25c

No. 26 to 50 ..... \$40c

No. 51 to 100 ..... \$40c

No. 1 to 100 ..... \$40c

We do not sell less than 25, and prices are for bands numbered consecutively from 1 up. We do not furnish them in any other way.

No. 1 to 25 ..... \$13c

No. 26 to 50 ..... \$25c

No. 51 to 100 ..... \$40c

No. 1 to 100 ..... \$40c

## CALF WEANERS



**WIRE BASKET CALF AND COW WEANERS**

Steel wire, heavily tinned; complete with leather straps. Additional straps fit over animal's nose to prevent wire from causing soreness. Simple, efficient and humane. Does not prevent the animal from drinking or feeding off the ground. Impossible for it to suck or throw the basket off the nose. Very practical, popular and low in price. Will give perfect satisfaction.

**183B2701**—No. 1; fits calves. Average weight, each, 9 oz.

Each ..... \$23c

**183B2702**—No. 2; fits 2-year-olds. Average weight, each, 12 oz. Each ..... \$26c

Dozen ..... \$3.00

**183B2703**—No. 3; fits cows. Average weight, each, 1 lb. Each ..... \$35c

Dozen ..... \$4.00



**WAGNER WEANERS**

Heavily tinned metal. Permits the calf to graze, eat or drink, yet effectively prevents sucking of cow.

**183B2704**—Calf size. Average weight, 4 oz.

Each ..... \$0.19

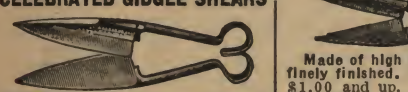
Per dozen ..... \$2.10

**183B2705**—Cow size. Average weight, 6 oz.

Each ..... \$0.22

Per dozen ..... \$2.50

## QUALITY SHEEP SHEARS



**CELEBRATED GIDGEE SHEARS**

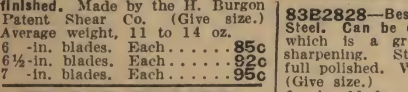
Made of high grade cutlery steel, finely finished. Usual retail value, \$1.00 and up.

**183B2810**—Made by Burdon & Wilkinson, Sheffield, England, of solid steel with double bow, full polished. Average weight, 11 to 12 oz. (Give size.)

6-in. blade, Each ..... \$1.15

6 1/2-in. blade, Each ..... \$1.20

## BURDON ENGLISH SHEEP SHEARS



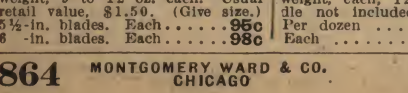
**183B2818**—Double bow, made of the highest quality of steel, finely finished. Made by the H. Burdon Patent Shear Co. (Give size.)

6-in. blades, Each ..... \$85c

6 1/2-in. blades, Each ..... \$92c

7-in. blades, Each ..... \$95c

## THE TRUE VERMONT SHEARS

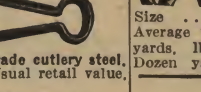


**183B2812**—Genuine Wilkinson True Vermont Shears are made of the very finest steel. Bent blades, full polished. Average weight, 9 to 12 oz. each. Usual retail value, \$1.50. (Give size.)

6-in. blades, Each ..... \$95c

6 1/2-in. blades, Each ..... \$98c

## DETACHABLE SHEEP SHEARS

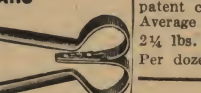


**183B2828**—Best Quality Cutlery Steel. Can be easily taken apart, which is a great advantage for sharpening. Strictly high-grade, full polished. Weight, about 1 lb. (Give size.)

6-in. blades, Each ..... \$0.90

6 1/2-in. blades, Each ..... \$1.00

## SHEPHERD CROOKS

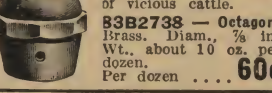


**183B2840**—Steel rod, tempered and heavily tinned. With socket. Length, 11 1/2 in. Average weight, each, 12 oz. (wood handle not included).

Per dozen ..... \$4.75

Each ..... \$45

## BRASS OX HORN BALLS

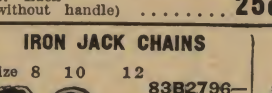


To put on the horns of vicious cattle.

**183B2738**—Octagon. Brass. Diam., 3/4 in. Wt., about 10 oz. per dozen.

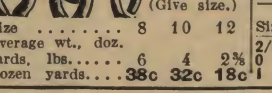
Per dozen ..... \$60c

## TINNED BULL SNAPS



**183B2726**—With three feet of chain; is used with bull ring in leading vicious cattle. Any rake or hoe handle can be used. Average weight, 11 oz. Each (without handle) ..... \$25c

## IRON JACK CHAINS



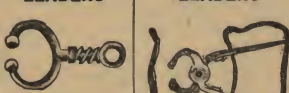
**183B2796**—Open links (not welded). Illustrations are about 1/2 actual size. (Give size.)

Size ..... 8 10 12

Average wt., doz. .... 2/0 3/4 in. 36c 50c

Dozen yards ..... 38c 32c 18c

## CATTLE LEADERS

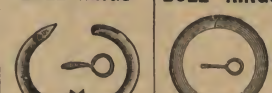


**183B2722**—Malleable iron, brass wire spring, not the cheap cast iron kind. Average wt., 6 oz.

Each ..... \$6c

Per dozen ..... \$55c

## CATTLE LEADERS

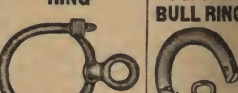


**183B2724**—Malleable iron. By attaching an ordinary piece of rope the animal can be held securely. Wt. (without rope), 22 oz. Regular 25c

value, Each ..... \$10c

Per doz. .... \$1.70

## SELF-PIERCING BULL RINGS



**183B2712**—Solid copper, size 2 1/2 in. Far superior to the old style rings. Dozen ..... \$1.35

Weight, per doz. .... \$1.35

2 lbs. 25c retail value, Each ..... \$15c

Each ..... \$15c

Dozen ..... \$1.65

## COPPER BULL RINGS





# GAME TRAPS AND ACCESSORIES

## GOPHER, RAT AND MOUSE TRAPS



### VICTOR TRAPS

Ours are the genuine Victor Steel Traps, made by the Oneida Community Limited. While lighter in weight than the Newhouse, they are made in a first-class manner, and are very popular with the farmer and trapper of small game. Branded with a V on the pan.

### NEWHOUSE TRAPS

Ours are the Genuine Newhouse steel traps, made only by the Oneida Community, Limited. The springs are made of the best crucible steel, and are thoroughly tested. Made of the best material, strongly proportioned, and will give the best of satisfaction. The trappers' choice. Branded Newhouse on the pan.

### JUMP TRAPS

Made by the Oneida Community, Ltd. Lighter in weight and easier to carry than other styles. Very popular with many trappers. Lie very flat and are easily secreted. Jaws have full, wide, meeting faces, not liable to break the animal's leg.



### VICTOR BRAND TRAPS

#### VICTOR TRAP, SIZE 0



85B5001—For gophers, rats, or other vermin. Has a tight grip. Spread of jaws, 3 1/2 in. Weight, per dozen, 4 1/2 lbs. Each .....\$0.10  
Per dozen .....1.10

#### VICTOR TRAP, SIZE 1 1/2



85B5005—For mink, woodchuck, skunk, etc. Spread of jaws, 4 1/2 in. Weight, per doz., 11 lbs. Each .....\$0.17  
Per dozen .....1.95

#### VICTOR TRAP, SIZE 2



85B5007—Especially for Foxes. Spread of jaws, 4 1/2 in. Weight, per doz., 14 lbs. Each .....\$0.23  
Per dozen .....2.73

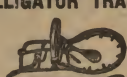
#### VICTOR TRAP, SIZE 3



85B5011—For otter and similar game. Spread, 5 1/2 in. Weight, each, 1 1/2 lbs. Each .....\$0.31  
Dozen .....3.64

### SMALL GAME TRAPS

#### ALLIGATOR TRAP



Kills instantly. Double trip action, bait trigger and foot pedal trip.

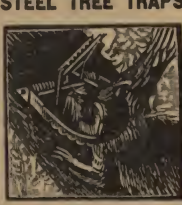
85B5048—Size 1. For Muskrat, Mink, etc. Toothed jaws. Length, 8 in. Weight, 14 oz. Each .....\$0.35

#### ALLIGATOR TRAP



85B5049—Size 2. For the larger fur-bearing animals. Smooth upper jaw. Two powerful springs. Length, 11 in. Weight, 24 oz. Each .....\$0.60

#### STEEL TREE TRAPS



Used with great success by many trappers. Made with strong springs. Can be nailed to a tree or stump above the snow, and thus is always easily found.

85B5075—Size 1. For mink, marten, etc. Weight, each, 20 oz. .....\$0.20  
Per dozen .....2.38

85B5076—Size 2. For skunk, coon, etc. Weight, each, 23 oz. Each .....\$0.23  
Per dozen .....2.75

#### SURE DEATH CHOKE TRAP



85B5080—Size 1. A light, sensitive and powerful steel trap, with pronged trip. Kills without injuring the pelt. Instructions with each trap. Length, 11 1/2 in. Size, inside of jaws, 4 1/4 in. Weight, each, 9 oz. Each .....\$0.22  
Per dozen .....2.50

#### SURE DEATH CHOKE TRAP



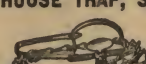
85B5083—Size 3. With foot pedal trigger. Light, sensitive and powerful. Kills without injuring the pelt. Size inside of jaws, 5 1/2 in. Weight, each, 14 oz. Each .....\$0.25  
Dozen .....2.90

85B5084—Size 4. With curved trigger. Weight, each, 14 oz. Each .....\$0.26  
Dozen .....3.00

865 MONTGOMERY WARD & CO. CHICAGO

## GENUINE NEWHOUSE BRAND GAME TRAPS

#### NEWHOUSE TRAP, SIZE 0



85B5000—For gopher, rats and other vermin. Has a tight grip. Spread of jaws, 3 1/2 in. Weight, per doz., 7 1/2 lbs. Each .....\$0.21  
Per dozen .....2.42

#### NEWHOUSE TRAP, SIZE 81



85B5020—For muskrat, etc. Webbed jaws prevent animals gnawing legs off. Spread of jaws, 4 in. Weight, each, 12 oz. Each .....\$0.27  
Per dozen .....3.14

#### NEWHOUSE TRAP, SIZE 91



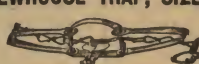
85B5022—The wide, double jaws rarely break bones, and grip so high up on a muskrat or skunk that he can not twist or gnaw out. Same size as the regular No. 1 Newhouse. Spread of jaws, 5 1/2 in. Weight, each, 14 oz. Each .....\$0.29  
Per dozen .....3.42

#### NEWHOUSE TRAP, SIZE 91 1/2



85B5023—Wide, double jaws. Corresponds in size with No. 1 1/2. Spread of jaws, 6 1/2 in. Weight, each, 22 oz. Each .....\$0.43  
Per dozen .....5.13

#### NEWHOUSE TRAP, SIZE 2



85B5006—Called the Fox Trap. Spread of jaws 4 1/2. Similar to No. 1 1/2, but having two springs is, of course, much stronger. Weight, each, 1 lb. Each .....\$0.50  
Per dozen .....5.99

#### NEWHOUSE TRAP, SIZE 2 1/2



85B5025—Used especially for catching otter on their "slides." Sharp teeth pierce the animals' breast. Detachable, raised pan plate. A trap of general utility. Spread of jaws, 5 1/2 in. Weight, each, 2 1/2 lbs. Each .....\$0.79  
Per dozen .....9.40

#### NEWHOUSE TRAP, SIZE 3



85B5010—Very powerful; will hold almost any game smaller than a bear. Spread of jaws, 5 1/2 in. Weight, each, 2 1/2 lbs. Each .....\$0.67  
Per dozen .....7.98

#### NEWHOUSE TRAP, SIZE 4



85B5012—Especially for beaver. A favorite with trappers in the far west and Canada. Spread of jaws, 6 1/2 in. Weight, each, 3 1/2 lbs. Each .....\$0.79  
Per dozen .....9.40

#### NEWHOUSE TRAP, SIZE 14



85B5028—Especially for deer. Jaws have an offset to prevent breaking the deer's leg. With teeth sufficiently close together to prevent the animal from drawing its hooks out. Spread of jaws, 6 1/2 in. Weight, 3 1/2 lbs. Each .....\$0.84

#### NEWHOUSE TRAP, SIZE 4 1/2



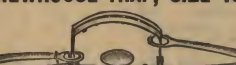
85B5014—Especially for wolves. Extra heavy, 5 ft. steel chain with swivel, heavy snap and drag. Spread of jaws, 8 1/2 in. with the other parts in proportion. Will hold two thousand pounds. Weight, 8 lbs. Each .....\$1.90

#### NEWHOUSE BEAR TRAP



85B5015—Especially for common black bear. Strong chain and swivel. Spread of toothed jaws, 11 1/2 inches. Weight, 19 lbs. Each .....\$5.70  
85B5016—Strongest trap made. Spread of jaws, 16 in. Wt., 42 lbs. Each .....\$13.30

#### NEWHOUSE TRAP, SIZE 15



85B5030—For Bear. Jaws have 3/4 in. offset, which allows the spring to come up high, and holds securely. Spread of jaws, 11 1/2 in. Wt., 20 lbs. With setting clamp and spring holder. Each .....\$5.70

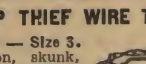
### SMALL GAME TRAPS

#### STOP THIEF WIRE TRAPS



85B5061—Size 1. For squirrels, rats, gophers and small animals. Made of hard steel wire. Light, yet strong. With chain. Weight, each, 8 oz. Each .....8c  
Per dozen .....95c

#### STOP THIEF WIRE TRAPS



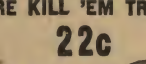
85B5063—Size 3. For raccoon, skunk, mink, etc. Made of hard steel wire. Light, yet strong. With chain. Wt., each, 15 oz. Each .....\$0.14  
Per doz. ....1.58

#### STEEL WIRE TRAPS



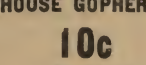
85B5070—Size 2. For mink, skunk, etc. Size, 11x7 in. Wt., each, 12 oz. Each .....7c  
Per doz. ....70c  
85B5071—Size 3. For larger animals. Size, 11x7 1/2 in. Wt., each, 14 oz. Each .....9c  
Per doz. ....90c

#### WIRE KILL 'EM TRAPS



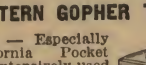
85B5050—Size 1. Heavy steel wire. Readily concealed over holes or in runways. Length, 12 in. Diameter of rings, 5 1/2 in. Wt., each, 1 lb. Each .....\$0.22  
Per dozen .....2.50

#### NEWHOUSE GOPHER TRAP



85B5122—Very popular. Simple and certain. Carefully tempered spring makes the trap fast and powerful. Length, 5 1/2 in. Diam. of ring, 3 in. Wt., each, 4 oz. Each .....\$0.10  
Per dozen .....1.15

#### WESTERN GOPHER TRAPS

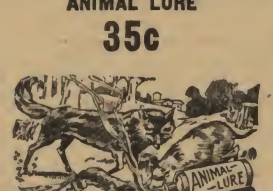


85B5120—Especially for California Pocket Gophers. Extensively used by fruit growers, etc. Usually placed in the burrow. Wood box with steel springs and loop. Size, 6 1/4x3 1/4x3 in. Weight, each, 13 oz. Each .....\$0.13  
Per dozen .....1.35

### POPULAR TRAPPING ACCESSORIES

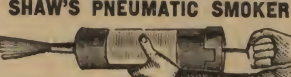
#### ANIMAL LURE

35c



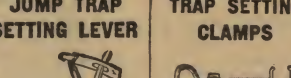
85B5110—A secret compound which excites and lures animals, such as the following: Skunk, mink, weasel, fox, wolf, wildcat, bear, marten, lynx, otter, raccoon, opossum, etc. A few bottles of this scent applied to your string of traps will be certain to increase your catch at small expense. Comes in 2 oz. bottles. Shipping weight, 4 oz. 50c value. Each .....\$0.35  
Per bottle .....\$0.35

#### SHAW'S PNEUMATIC SMOKER



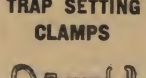
85B5105—Enables you to smoke out from their dens and catch many animals in a day during extreme cold weather. Galvanized iron. Size, 4x3 1/2 in. Weight, 2 1/2 lbs. With directions and smokeout powder. Each .....\$2.00  
85B5106—Smokeout Powder. For above. Wt., each, 8 oz. Per box .....20c Dozen .....\$2.00

#### JUMP TRAP SETTING LEVER



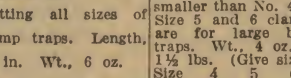
85B5090—For setting all sizes of jump traps. Length, 7 in. Wt., 6 oz. Each .....9c  
Per dozen .....\$0.90

#### TRAP SETTING CLAMPS



85B5092—Size 4 is for any trap smaller than No. 4 1/2. Size 5 and 6 clamps are for large bear traps. Wt., 4 oz. to 1 1/2 lbs. (Give size). Size 4 .....\$0.40  
Size 5 .....\$0.40  
Size 6 .....\$0.40

#### STEEL FUR STRETCHERS



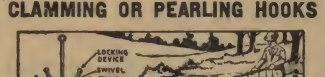
85B5102—Adjustable stretcher for drying and curing animal furs. Made of steel, light and compact. Dries the skin in perfect shape, so as to bring the highest market price. Size 1. For Muskrat. Wt., each, 15 oz. Each .....\$0.10  
Per doz. ....1.05  
Size 2. For Mink. Wt., each, 20 oz. Each .....\$0.14  
Per dozen .....1.40  
Size 3. For skunk and large animals. Weight, each, 20 oz. Each .....15c  
Per dozen .....\$1.40

### LIVE ANIMAL TRAP



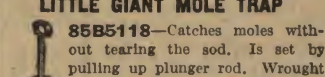
85B5072—To catch animals alive for breeding purposes or to insure getting furs free from blemishes. Used with or without bait. Made of black sheet steel. One end has trap door with adjustable tension. Size 1. Wt., 4 lbs. Size, 23x5x5 in. Each .....\$1.75  
Size 2. Wt., 6 lbs. Size, 30x7x7 in. Each .....\$2.00

#### CLAMMING OR PEARLING HOOKS



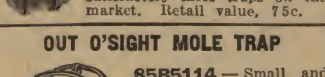
85B5095—Usually strung up, three in a group, spaced 4 in. apart, on bars, 5 ft. long. Consists of a wrought steel hook with five points that turn on a perfect swivel. Each point has a locking knob which allows no clam to escape. Far superior to and rapidly replacing old fashioned wire hooks. Length, 3 1/2 in. Weight, doz., 1 lb. Per dozen .....\$0.60  
Per gross .....6.50

#### LITTLE GIANT MOLE TRAP



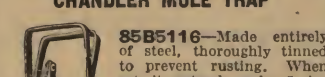
85B5118—Catches moles without tearing the sod. Is set by pulling up plunger rod. Wrought steel frame. Spring steel prongs, not injured by striking rocks. Height, set, 20 1/2 in. Width, frame, 4 in. Weight, about 3 lbs. Each .....\$0.45

#### OUT O'SIGHT MOLE TRAP



85B5114—Small and compact. All steel. Easily set and a sure catcher. No high projecting parts and can be used in hot beds without interfering with the glass cover. Directions for securing best results are included with each trap. Wt., 1 1/4 lbs. Each .....\$0.42

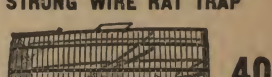
#### CHANDLER MOLE TRAP



85B5116—Made entirely of steel, thoroughly tinned to prevent rusting. When set it extends only 5 in. above the ground and 7 in. under ground, making it suitable for use in hot-beds, as it does not interfere with the glass cover. It is self setting and has no sharp prongs to endanger the safety of children or stock. Directions with each trap. Weight, 2 1/4 lbs. Each .....\$0.36

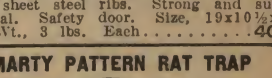
### RAT AND MOUSE TRAPS

#### STRONG WIRE RAT TRAP



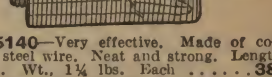
85B5135—Made of coppered steel wire, with sheet steel ribs. Strong and substantial. Safety door. Size, 19x10 1/2x8 in. Wt., 3 lbs. Each .....40c

#### MARTY PATTERN RAT TRAP



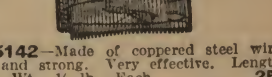
85B5140—Very effective. Made of coppered steel wire. Neat and strong. Length, 15 in. Wt., 1 1/4 lbs. Each .....38c

#### WIRE MOUSE TRAP



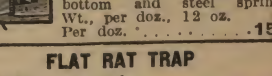
85B5142—Made of coppered steel wire. Neat and strong. Very effective. Length, 8 in. Wt., 1/2 lb. Each .....25c

#### FLAT MOUSE TRAP



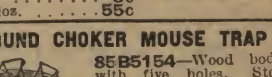
85B5150—Well made and very effective. With wood bottom and steel spring. Wt., per doz., 12 oz. Per doz. ....15c

#### FLAT RAT TRAP



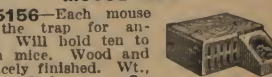
85B5152—Strongly made and very effective. Wood bottom, steel spring. Wt., each, 8 oz. Each .....5c  
Per doz. ....55c

#### ROUND CHOKER MOUSE TRAP



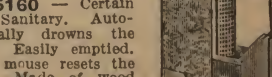
85B5154—Wood body, with five holes. Steel springs. Catches the mouse by the neck and kills them instantly. Wt., 4 oz. Each .....6c

#### MOUSE TRAP



85B5156—Each mouse sets the trap for another. Will hold ten to fifteen mice. Wood and tin nicely finished. Wt., 8 oz. Each .....9c

#### SELF DROWNING TRAP



85B5160—Certain and Sanitary. Automatically drowns the mice. Easily emptied. Each mouse resets the trap. Made of wood and tin. Wt., 1 lb. Each .....45c



# BLACKSMITHS' SUPPLIES — STEEL CHAINS — WIRE ROPE

## HIGH GRADE BLACKSMITHING OUTFIT

Each Item is First Class. Our Price Remarkably Low, \$3280  
quality considered. This is a Big Bargain.



183B2952—A fine, complete outfit of standard, first quality tools, all taken from our regular stock, and in every way exactly as represented. The Forge, Anvil, Drill, in fact each item in the outfit, is carefully selected with a view to supplying reliable, practical tools for hard every day use. Will enable you to do your own blacksmithing and repairing and will prove of much value on any farm or ranch.

- Outfit consists of the following:
- 1 Imperial Lever Forge, with half hood, diameter of hearth, 22 in.; height, 30 in., with a perfect lever ratchet action. Fan case, 9 in.
  - 1 American Wrought Anvil, steel face. Nothing better made. Weight, about 85 lbs.
  - 1 Champion Post Drill, with self-feed attachment, will bore to center of a 12-in. circle, takes 1/2-in. round shank drills. A strictly first-class machine.
  - 6 Twist Drills, with 1/4-in. round shank; one each 3/16, 1/2, 5/16, 3/4, and 1 in.
  - 1 Blacksmiths' Vise, steel jaws, wrought solid box. Weight, about 35 lbs.
  - 1 Stock and Dies, cutting 5/16 to 1 in. right hand, 10, 12 and 16 thread, with 3 sets of dies, and 3 taper taps.
  - 1 Leather Apron, extra quality.
  - 1 Farriers' Knife, genuine Wostenholm IXL, stag handle.
  - 1 Farriers' Hammer, forged steel, polished. Weight, about 10 oz.
  - 1 Hand Hammer, extra quality, polished. Weight, about 2 lbs.
  - 1 Pair Blacksmiths' Pincers, length, 14 in. Tempered steel jaws.
  - 1 Pair Blacksmiths' Tongs, Length, 20 in.
  - 1 Pair Bolt Tongs, size 1/2 in.; length, 20 in.
  - 1 Hardie, solid steel, to fit anvil.
  - 1 Hot Chisel, solid steel, 1 1/2 in.
  - 1 Cold Chisel, solid steel, 1 1/2 in.

183B2952—Price of Outfit complete as illustrated and described above. .... \$32.80

## COMPLETE HIGH-GRADE OUTFIT

A Superb Collection of Blacksmiths' Tools. \$4850  
All Standard High Grade for the Best Shops



- 183B2954—Complete Set of Blacksmiths' Tools, as illustrated, consists of the following items:
- 1 Large Portable Forge, with half hood; size of hearth, 23x35 in. Height to top of hearth, 30 in. Fan case, 12 in. Lever ratchet motion.
  - 1 Easy Screw Plate, No. 2B, cutting 1/4x20, 3/4x12, 1/2x10, 3/8x10 thread, in hardwood box, with two stocks and tap wrench.
  - 1 Cold Chisel, 1 1/2 in. solid steel.
  - 1 Hand Cold Chisel, 1 in.
  - 1 Flatter, 2 1/2 in. square.
  - 1 Leather Apron, extra quality.
  - 1 Blacksmiths' Forged Steel Sledge, with handle. Weight, about 10 lbs.
  - 1 Blacksmiths' Cutting Nippers, length, 14 in., solid steel.
  - 1 Blacksmiths' Pincers, 14 in., forged steel polished jaws.
  - 1 Blacksmiths' Tongs, 22 in.
  - 1 Bolt Tongs, 1/2 in. Length, 20 in.
  - 1 Farriers' Knife, stag handle.
  - 1 Horse Rasp, 14 in. Lakeside brand.
  - 1 Blacksmiths' Hand Hammer, solid steel, polished. Weight, about 2 lbs.
  - 1 Champion Post Drill, self feed. Drills to center of 14 in. circle. Light running and durable.
  - 1 American Wrought Anvil. Best grade. Weight, about 100 lbs.
  - 1 Blacksmiths' Vise, steel jaws. Weight, about 60 lbs.
  - 1 Farriers' Hammer, solid steel. Weight, about 12 oz.
  - 8 Twist Drills, for post drill. One each 3/16, 1/2, 5/16, 3/4, 1 in. with 1/2 in. round shank.
  - 1 Hardie, to fit anvil.
  - 1 Hot Chisel, 1 1/2 in. solid steel. Shipping weight of set complete, about 500 lbs.

183B2954—Price of Outfit complete, as illustrated and described above. .... \$48.50

## FARMER'S HANDY REPAIR OUTFIT

A Fine Assortment of Serviceable Tools. Just the thing for the Farmer, Stockman and Planter \$10.95



183B2950—Consists of an assortment of good, practical tools, all taken from our regular stock, and will be found exactly as represented. With this outfit you can do most of the repair work necessary about a farm or ranch and keep your wagons and implements in good order at a trifling expense.

- Outfit consists of the following items:
- 1 Lever Forge, with an 18-in. round hearth, perfect lever ratchet movement, and 8-in. fan case.
  - 1 Combination Anvil and Vise, with pipe jaws; width of jaws in vise, 3 in.; will open 5 in.
  - 1 Horizontal Drill, length, 26 in., with chuck for holding square shank drill bits.
  - 3 Twist Drills, one each, 1/4, 1/2, 3/4 in., for boring metal or wood.
  - 1 Stock and Dies, cutting 5/16 to 1 in.; 10, 12 and 16 threads, complete with 3 sets of dies, and taper taps.
  - 1 Pair Blacksmiths' Tongs, length, 20 in.
  - 1 Pair Bolt Tongs, size 1/2 in.; length, 20 in.
  - 1 Pair Blacksmiths' Pincers, solid steel, tempered jaws, length, 14 in.
  - 1 Farriers' Knife, with stag handle.
  - 1 Cold Chisel, size 1 1/2 in.
  - 1 Hand Hammer, forged steel, polished. Weight, about 2 lbs.

183B2950—Price of Outfit complete. .... \$10.95

## OUR COMPLETE MASTER BLACKSMITHS' OUTFIT

A complete set of the Highest Grade Tools. \$5985  
Will appeal to every mechanic desiring the best.



- Complete set of Blacksmiths' Tools as illustrated, consisting of the following items:
- 1 Champion Midway Geared Blower, complete with tuyere iron and pipe.
  - 1 American Wrought Anvil, polished and tempered steel face. Weight, about 120 lbs.
  - 1 Blacksmiths' Vise, steel jaws. Weight, about 75 lbs.
  - 1 Easy Screw Plate, No. 5B, cutting 1/4x20, 5/16x18, 3/8x16, 7/16x14, 1/2x12, 3/4x11, 1x10 thread, with two stocks and tap wrench in hardwood case.
  - 1 Champion Post Drill, Ball-bearing self-feed will drill to center of a 16-in. circle. Weight, about 120 lbs.
  - 1 Blacksmiths' Hand Hammer. Weight, about 3 lbs.
  - 1 Machinists' Ball Pein Hammer. Weight, about 1 1/2 lbs.
  - 1 Forged Steel Farrier Hammer. Weight, about 12 oz.
  - 1 Cutting Nippers, solid steel. Length, 14 in.
  - 1 Gad Tongs, 18 in., forged steel.
  - 1 Bolt Tongs, forged steel; length, 20 in.; size, 1/2 in.
  - 1 Straight Lipped Tongs, forged steel; length, 22 in.
  - 1 Cold Chisel, 1 in., solid steel.
  - 1 Hot Cutter, 1 1/2 in., solid steel.
  - 1 Cold Cutter, 1 1/2 in., solid steel.
  - 1 Hardie, to fit anvil.
  - 1 Square Flatter, 2 1/2 in., steel.
  - 6 Drill Bits, for post drill, one each 3/16, 1/2, 5/16, 3/4, and 1 in. with 1/2 in. round shanks.
  - 1 Blacksmiths' Sledge and handle, solid cast steel. Weight, about 12 lbs.
  - 1 Farrier Knife, bone handle.
  - 1 Leather Apron, with bib, extra quality.
  - 1 Horse Rasp, slim pattern, length, 18 in.
  - 1 Bolt Clippers, No. 2, will cut up to 1/2 in. diameter.
  - 1 Hoof Parer, full polished solid steel, length, 12 in.
  - 1 Horse Shoers' Tongs, forged steel, length, 12 in.
  - 1 Buffer, solid steel oil finished.

183B2956—Price of Outfit Complete, as illustrated and described above. (Regular \$75.00 Value) ..... \$59.85

## LOG CHAINS AND HOOKS

STEEL LOG CHAINS, 80c—LENGTH 14 FT.

183B2900—Cable log chain. Total length, 14 feet. Self colored steel coil chain, with swivel in center, and heavy grab and round hook. The sizes given indicate the diameter of the rods from which the links are made. Each chain carefully tested and inspected. The proof test and safe working load is the same as the Steel Cable Chains shown below. Note Our Bargain Prices. Give size.

Size, in.	1/4	5/16	3/8	1/2
Approximate weights, lbs.	10 1/2	16 1/2	23	45
Each	80c	95c	\$1.20	\$1.80

### STEEL CABLE CHAIN

183B2905—Short, straight links. The sizes given indicate the diameter of the rods from which the chain is made. The safe working load is about one-half of the proof test shown below, while the breaking strain is about double the proof test. Give size.

Size, in.	3/16	1/2	5/16	3/8	7/16	1/2
Proof test, lbs.	700	1,200	2,500	3,500	4,800	6,200
Approx. wt., ft. lb.	1 1/2	2 1/2	4 1/2	6 1/2	8 1/2	12
Price, per ft.	5/2c	6 1/2c	7 1/2c	9c	10c	12c

NOTICE: In the event of extraordinary market fluctuations, we reserve the right to revise our prices on chains.

### IRON CHAIN HOOKS

183B2910—Forged Iron Grab Hooks for chains. Well made. Give size.

For Chain Size	Weight about	Each
1/4 in.	1 lb.	50c
5/16 in.	1 1/2 lb.	60c
3/8 in.	2 lb.	90c
7/16 in.	3 lb.	100c
1/2 in.	4 1/2 lb.	120c

183B2911—Forged Iron Grab Hooks for chains. Well made. Give size.

Size in.	Weight	Each
1/4 in.	1 lb.	50c
5/16 in.	1 1/2 lb.	60c
3/8 in.	2 lb.	90c
7/16 in.	3 lb.	100c
1/2 in.	4 1/2 lb.	120c

### WROUGHT REPAIR LINKS

183B2915—Repair links for connecting or repairing iron chain.

For Chain in.	Wt. doz.	Per dozen
3/16	1 1/2 lbs.	50c
1/4	2 1/2 lbs.	60c
5/16	3 1/2 lbs.	90c
3/8	4 1/2 lbs.	120c

183B2918—Superior to others in strength.

Wts., about 2 to 12 oz. each.	Give size.	Each	Doz.
For Chain, in.	1/4	4c	34c
For Chain, in.	5/16	5c	46c
For Chain, in.	3/8	6c	67c

### MALLEABLE REPAIR LINKS

183B2918—Superior to others in strength.

Wts., about 2 to 12 oz. each.	Give size.	Each	Doz.
For Chain, in.	1/4	4c	34c
For Chain, in.	5/16	5c	46c
For Chain, in.	3/8	6c	67c

## BAR IRON

AT BASE \$1.50 PER 100 LBS. PRICE OF

ROUND, SQUARE, FLAT AND TIRE SIZES  
High Grade Bar Iron in any Quantity, at Ton Lot Prices. All shapes figured at the base price of \$1.50 per hundred pounds, with the regular advance per pound over the base rate for small sizes. Weights and prices on Round, Square and Flat Iron shown below are for Single Bars of 14 feet. Sold only in full bars. Our Round Edge Tire Iron is easier to work than steel. Weights and prices on Round Edge Tire Iron shown below are for full sets of four bars, consisting of two bars 12 1/2 ft. long, and two bars 13 1/2 ft. long. Sold only in full sets of four bars. Weights given are approximate, and may vary slightly.

183B2960—ROUND IRON.			
Size, in.	5/16	3/8	7/16
Weight, lbs.	2 1/4	3 1/2	7
Per bar.	40c	60c	120c
Size, in.	1/2	5/8	3/4
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per bar.	90c	120c	180c
Size, in.	3/4	7/8	1
Weight, lbs.	6 3/4	9 1/4	12 1/4
Per bar.	120c	180c	240c
183B2961—SQUARE IRON.			
Size, in.	5/16	3/8	7/16
Weight, lbs.	2 1/4	3 1/2	7
Per bar.	40c	60c	120c
Size, in.	1/2	5/8	3/4
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per bar.	90c	120c	180c
Size, in.	3/4	7/8	1
Weight, lbs.	6 3/4	9 1/4	12 1/4
Per bar.	120c	180c	240c
183B2962—FLAT IRON.			
Width, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per bar.	90c	120c	180c
183B2963—FLAT IRON.			
Width, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per bar.	90c	120c	180c
183B2964—FLAT IRON.			
Width, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per bar.	90c	120c	180c
183B2965—FLAT IRON.			
Width, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per bar.	90c	120c	180c
183B2966—FLAT IRON.			
Width, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per bar.	90c	120c	180c
183B2967—FLAT IRON.			
Width, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per bar.	90c	120c	180c
183B2968—ROUND EDGE TIRE IRON.			
Size, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per set.	63c	72c	130c
Size, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per set.	63c	72c	130c
Size, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per set.	63c	72c	130c
Size, in.	1 1/2	2	3
Weight, lbs.	4 1/2	6 3/4	9 1/4
Per set.	63c	72c	130c



Prices on Iron are subject to market changes. We will always give you the benefit of the very lowest prices.  
Order by the BAR NOT by the POUND.

## WIRE HOISTING ROPE

STEEL WIRE ROPE

183B2920—Standard Steel Wire Hoisting Rope. Six strands of nineteen wires each, laid around a hemp center. A very strong pliable rope. Prices subject to market changes. Give size.

Size in.	Wt. about lbs.	Work-ing load Tons	Per Foot Steel
3/4	1 1/4	1 1/2	4 1/2c
1	2 1/4	2 1/2	6 1/2c
1 1/4	3 1/4	3 1/2	8 1/2c
1 1/2	4 1/4	4 1/2	9 1/2c

NOTICE: In the event of extraordinary market fluctuations we reserve the right to revise our prices on wire rope.

### WIRE ROPE FASTENERS

(Fastener used with oval thimble)  
183B2926—Wire Rope Fasteners or Clips. Painted (Without thimble). These fasteners are strong, light and durable. Simple and effective. Weights, each, about 1/2 to 1 1/2 lbs. Give size.

For rope, in.	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3
Each.	4c	5c	6c	8c	10c	12c	14c	16c

### WIRE ROPE THIMBLES

183B2927—Oval Wire Rope Thimbles, Galvanized. Wts. each, about 1/2 to 11 oz. Give size.

For rope, in.	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3
Each.	3c	4c	5c	6c	7c	8c	9c	10c
Doz.	25c	35c	45c	60c	70c	80c	90c	100c

## IRON WIRE ROPE

183B2924—Made of six strands of 19 wires to the strand, with a hemp center, for hoisting purposes. A pliable rope for inside use where it is not exposed to the weather. Give size.

Size in.	Wt. about lbs.	Work-ing load Tons	Per Foot Iron
3/4	1 1/4	1 1/2	8 1/2c
1	2 1/4	2 1/2	10 1/2c
1 1/4	3 1/4	3 1/2	12 1/2c
1 1/2	4 1/4	4 1/2	14 1/2c

### TANK HOOP LUGS

183B2930—Iron Lug and Draw Bolt, for flat hoops on silos and tanks. Will hold firmly, and sustain a very heavy pressure. No riveting of hoops necessary. Give size.

For Hoops, in.	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3
Bolt, 1/4 x 10								
Wt., about, lbs.	2 1/2	3 1/2	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2
Per set.	25c	36c	47c	58c	69c	80c	91c	102c

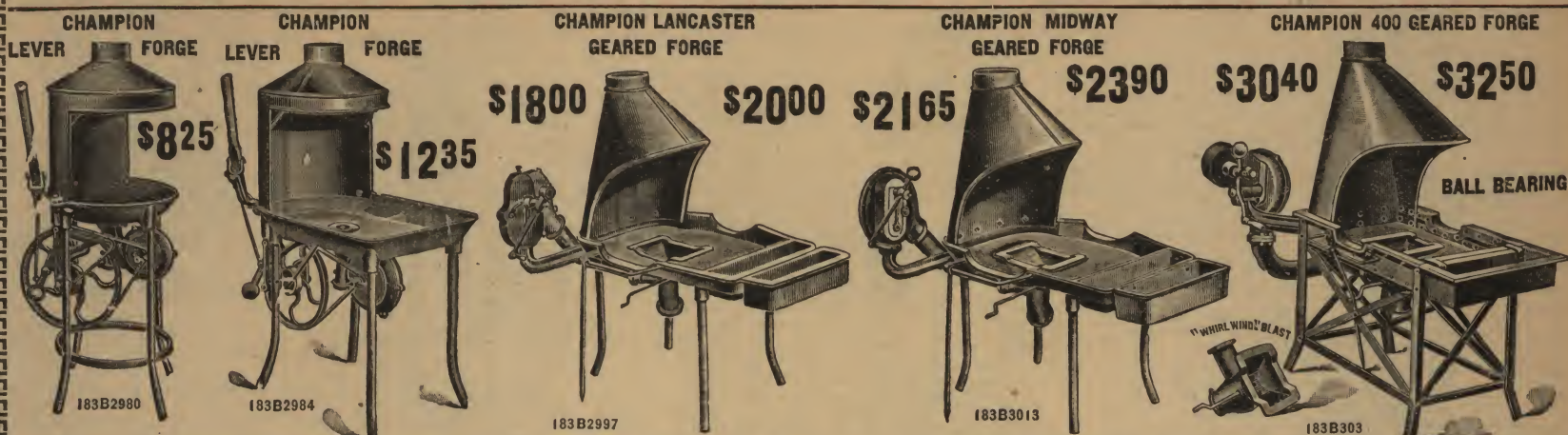
### ROUND HOOP LUGS

183B2932—Iron Tank Lug for round hoops. Very reliable and convenient. Give size.

For iron, in.	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3
Wt., about, lbs.	2 1/2	3 1/2	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2
Each	9c	12c	15c	18c	21c	24c	27c	30c



# FINE VALUES IN BLACKSMITHS' PORTABLE FORGES



**183B2980**—A light running and durable forge. Heavy cast iron hearth. Diameter, 22 in.; depth, 3½ in. Open sheet steel hood, as shown. The lever ratchet motion is positive and simple, and produces a strong blast with but slight exertion. The legs are of heavy wrought pipe screwed into the hearth. Stiff and substantial, and braced at bottom. Diameter of fan case, 9 in. Diameter of fly wheel, 14 in. Height to top of hearth, 32 in. A rigid, substantial and durable forge for blacksmiths, quarrymen, farmers, etc. Nicely painted. Shipping weight, about 115 lbs. Each **\$8.25**

**183B2984**—Adapted for horse-shoers, boilermakers, bridge builders or general smithing. Has a roomy cast hearth; size, 23x35 in. Depth, 2½ in. Open sheet steel hood, as shown. The fan is operated by a simple ratchet lever motion, which is positive, never slips, and produces a strong blast with but little exertion. Diameter of fan case, 12 in. Diameter of fly wheel, 19½ in. The legs are of heavy wrought pipe screwed into the bottom of hearth. Height, to top of hearth, 30 in. Thoroughly and substantially constructed in every detail, and a most efficient and durable forge for all kinds of general work. Nicely painted. Shipping weight, about 180 lbs. Each **\$12.35**

**Style 41.** A well made, direct drive Blacksmith Forge with cast iron hearth, strong pipe legs and sheet steel hood. Nicely painted. Built to meet the demand for a serviceable forge at a low price. Blower is smooth running and gives a strong, continuous blast. Will operate by turning in either direction. Heavy nest ball tuyere iron, weight, 50 lbs. Hearth, 32x45 in. Depth, 3½ in. with improved coal box on hearth. Tank, inside, 24x9 in. Depth, 6 in. Height to top of hearth, 31½ in. Diameter of fan case, 12 in.

**183B2997**—With coal box and water tank. Shipping weight, about 330 lbs. Each **\$20.00**

**183B2998**—Same forge, but without water tank. Shipping weight, about 300 lbs. Each **\$18.00**

A strong, portable forge. Large, heavy cast-iron hearth; size, 32x45 in. Depth, 3½ in. With sheet steel hood as shown. Strong pipe legs. Has the Midway blower, with cut spiral gears in dust-proof casing, no belts or ratchets and produces a powerful, steady blast. Crank can be turned in either direction. Height to top of hearth, 30 in. Diameter of fan case, 12 in. A most excellent and practical forge for all general work. With coal box on end of hearth, as shown. Nicely painted.

**183B3012**—Without water tank. Shipping weight, about 350 lbs. Each **\$21.65**

**183B3013**—With water tank. Size of tank, inside, 24x9 in. Depth, 6½ in. Shipping weight, about 380 lbs. Each **\$23.90**

Champion Steel Horsehoers' Forge. Designed and substantially constructed for horsehoers' and blacksmiths.

Has the famous Champion 400 high speed, noiseless gearing, and consequently produces a powerful draft, runs easily and smoothly, and is pleasant to the hand. Fitted with the well known Whirlwind tuyere iron. The frame of the forge is of structural steel, making it stiff and substantial. The hearth is of heavy steel plate. One of the most practical forge hearths made. Sheet steel hood. Braced angle steel legs. Size of hearth, 31½x37 in. Depth, 5½ in. Height to top of hearth, 32 in. Diameter of fan case, 12 in. Nicely painted.

**183B3035**—Complete with water tank. Size, 23x9 in. Depth, 6½ in. Shipping weight, about 330 lbs. Each **\$32.50**

**183B3036**—Without water tank. Shipping wt., about 302 lbs. Each **\$30.40**

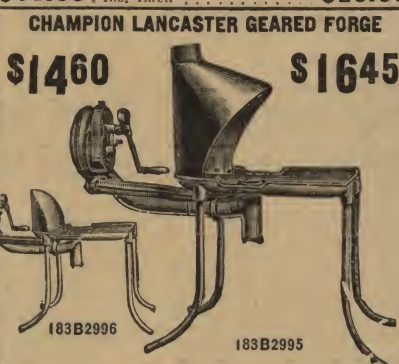


**183B2990**—Recommended for farmers' use. A well built, low priced machine. It is a strong, light forge for all kinds of portable work. Can be easily moved about, and produces a strong, steady draft with little exertion. Crank can be moved either way. Cast iron hearth. Diameter, 22 in. Depth, 3½ in. Strong pipe legs. Height to top of hearth, 31½ in. Diameter of fan case, 10 in. With sheet steel hood. Complete as illustrated. Shipping wt., about 130 lbs. Each **\$12.70**

**183B2992**—Same as above, but with shield instead of hood. Shipping weight, about 120 lbs. Each **\$11.30**



**183B2994**—Champion Lancaster Geared Steel Rivet Forge. Style 48. A well made, direct drive Rivet Forge with sheet steel hearth and shield. A convenient, light and serviceable forge at a moderate price. Legs are of steel, readily removable. Diameter of hearth, 18 in. Depth, 4½ in. Height to top of hearth, 34 in. Blower is smooth running and gives a strong, continuous blast by turning in either direction. Diameter of fan case, 10 in. Nicely painted. Shipping weight, about 125 lbs. Each **\$13.50**



**183B2995**—The Champion Lancaster Geared Agricultural Forge. An excellent, well built machine at a low price. The gearing is the same as in our Lancaster Blower Head and produces a good steady blast. Crank can be turned either way. Diameter of fan case, 10 in. Has a large, roomy cast iron hearth; size, 23x36 in. Depth, 3½ in. Height to top of hearth, 30 in. Strong pipe legs. With sheet steel hood, nicely painted. Complete, as illustrated. Shipping weight, about 180 lbs. Each **\$16.45**

**183B2996**—Same as above, with sheet steel shield instead of hood. Shipping wt., about 170 lbs. Each **\$14.60**



Has the famous 400 high speed, noiseless gearing. Adjustable ball bearings. Operates with marvelous ease. Will create a welding heat on 4 in. bar iron in ten minutes. Easily taken apart. Adapted for railroads, tank builders, miners, or any portable work requiring compactness and lightness with a strong blast. Diameter of fan case, 9 in. Sheet steel hearth. Diameter, 18 in. Depth, 5 in. Height to top of hearth, 33 in. Strong pipe legs. Nicely painted.

**183B3020**—With sheet steel shield as shown. Style 401. Shipping weight, about 130 lbs. Each **\$15.95**

**183B3021**—Same as above, but with half hood instead of shield. Height to top of hood, 60 in. Style 402. Shipping weight, about 120 lbs. Each **\$17.50**



**183B2986**—Forge complete with shield as illustrated. Shipping weight, about 155 lbs. Each **\$9.85**

**183B2987**—Forge complete with open hood. Shipping weight, about 165 lbs. Each **\$10.50**



**183B2970**—Designed for farmers' and planters' use, and suitable for all kinds of light repairing. Has cast iron hearth. Diameter, 18 in. Depth, 3½ in. Height to top of hearth, 33 in. Fitted with heavy pipe legs, braced at the bottom. The ratchet lever motion is simple and positive. Diameter of fan case, 8 in. Complete with sheet steel shield or wind guard, as illustrated. Shipping weight, about 82 lbs. Each **\$4.40**

## CHAMPION AGRICULTURAL FORGE



AN EXCELLENT LOW PRICED GENERAL PURPOSE FORGE

**\$550 WITH HOOD** **\$510 WITH SHIELD**

Usual Retail Value, \$8.00 to \$10.00 each

A strong, compact, well constructed forge, which we offer you at a decided bargain price. It will enable you to do most of your blacksmith work, produces a strong blast and is especially designed for the farmer and planter.

Has a heavy cast iron hearth. Diameter, 22 in. Depth, 3½ in. Three tubular steel legs. Made of heavy wrought pipe, braced at the bottom. Permit the forge to stand firmly on uneven ground. Height to top of hearth, 33 in. The heaviest and most substantial farmers' forge of this type that is built. The ratchet lever motion is positive and simple, never slips and produces a strong blast with only a slow motion of the lever. Diameter of fan case, 9 in. Nicely painted.

The hood can be connected with a stove pipe making the forge suitable for indoor use. Shipping weight, about 105 lbs.

**183B2972**—Forge, complete with sheet steel hood. Each **\$5.50**

**183B2974**—Same forge as above but with sheet steel shield, instead of hood. Shipping weight, about 95 lbs.

An excellent forge for all outside repair work and a big bargain at our price. Each **\$5.10**



A light, stiff and practical forge for construction work, railroads, bridges, builders, boiler-makers, etc. Blast is produced by turning handle in either direction.

Celebrated Champion 400 high speed, noiseless blower mechanism. Ball bearings. Gearing enclosed in a dust-proof casing. Structural steel frame, thoroughly braced. Strong, stiff and light. Easy running and noiseless and will produce a blast sufficient to cover the entire hearth with a hot fire if so desired. Sheet steel hearth, 24x24 in. Depth, 5½ in. Height to top of hearth, 30 in. Braced angle steel legs. Diameter of fan case, 9 in. Nicely painted.

**183B3028**—With sheet steel shield only (without hood). Shipping weight, about 175 lbs. Each **\$20.95**

**183B3029**—Complete with sheet steel half hood, as illustrated. Shipping weight, about 185 lbs. Each **\$22.75**



# BLACKSMITHS BLOWERS, TIRE BENDERS AND LATHES

## LANCASTER GEARED BLOWER

**183B3054**—A substantial and well built blower. Has no belt, ratchet or clutch. Runs easily. Crank can be turned in either direction.

Head is adjustable and mounted on a substantial base. Diameter of fan, 12 in. Produces a strong, steady blast.

With Tuyere Iron and pipe as illustrated. Shipping wt., 116 lbs. Price, each, **\$10.40**



## CHAMPION MIDWAY GEARED BLOWER

**183B3052**—A substantial direct driven blower, with spiral cross gears all enclosed in a dustproof casing.

The gears are all accurately machined and run easily. Crank can be turned in either direction. Has no belts, ratchets or clutches; is simple and durable. The head is mounted on a substantial base and takes up but little room in a shop.

Diameter of fan, 12 inches.

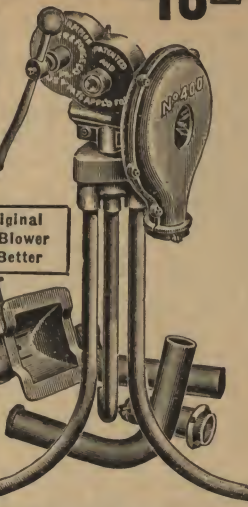
Produces a strong, continuous draft.

With heavy 50 pound Tuyere Iron and pipe, as illustrated. Shipping wt., about 168 lbs. Price, each, **\$12.95**



## FAMOUS CHAMPION 400 BLOWER \$18.00

**183B3050**—A fine, strictly high grade machine, which produces a strong, regular and positive blast, equal to that obtained by power. It has no bolts or train of small gears or friction, and is fitted throughout with the highest grade of adjustable ball bearings. The working parts are machined and cut from the solid metal and enclosed in an oil-tight casing. It runs noiseless, smooth and surprisingly easy. Blast is produced by turning crank in either direction. The blower is very compact, takes little floor space and can be taken apart for transportation and set up again in a very few minutes. Shipping wt., average 110 lbs.; diameter of fan, 12 in. Complete with new Whirlwind Tuyere Iron and piping as illustrated. Each **\$18.00**



The Original 400 Blower None Better

## CHAMPION ELECTRIC BLOWER \$25.00

**183B3062**—Has a universal motor for both, alternating and direct current, for 110 volts. Has rheostat with six speeds, complete with covered wire cord and plug. The blower can be placed close to the fire, connected to the tuyere iron by straight pipe, so the fire will receive all the blast without loss from long pipes and elbows. The six speeds, permit easy adjustment of the blast to suit all requirements. A most excellent blower. Total height, 12 in. Shipping wt., about 54 lbs. Price, each, **\$25.00**



plete with covered wire cord and plug. The blower can be placed close to the fire, connected to the tuyere iron by straight pipe, so the fire will receive all the blast without loss from long pipes and elbows. The six speeds, permit easy adjustment of the blast to suit all requirements. A most excellent blower. Total height, 12 in. Shipping wt., about 54 lbs. Price, each, **\$25.00**

### TUYERE IRONS



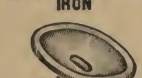
**183B3074**—Single Duck Nest pattern. Made of cast iron. Without blast regulating device. Total length, about 16 inches. Total width, about 12 inches. Height, about 3 1/2 inches. Average shipping weight, 13 lbs. Price, each, **\$38c**

### CLARK'S TUYERE IRON



**183B3076**—Medium size No. 2. Made of cast iron. With blast regulating device. Total length, about 16 inches. Total width, about 12 inches. Height, about 4 1/2 inches. Average shipping weight, 22 lbs. Price, each, **\$84c**

### SUTTON TUYERE IRON



**183B3078**—The Sutton Tuyere Iron and Fire Bowl. Made of cast iron, large and heavy. Insures a clean, bright fire. Will give satisfaction. Size of fire bowl, 13 1/2 x 11 1/2 in. Average ship. wt., 41 lbs. Price, each, **\$1.70**

### HAND AND MOULDERS BELLOWS



**183B3072**—Can be used as a Blacksmith's Hand as well as a Moulder's Bellows. Will give a quick, strong blast. Bellows of good grade leather. Woodwork is thoroughly dried. Width, 12 in. Total length, 22 1/2 in. Average ship. wt., 3 1/2 lbs. Price, each, **80c**

## STANDARD BLACKSMITHS' BELLOWS



**183B3070**—Bellows of special flexible leather. Woodwork thoroughly kiln-dried. Quality and workmanship of the best. Excellent values.

Width	Length of body	Ship. wt.	Each
24 in.	2 ft. 10 in.	4 1/2 lbs.	\$ 5.10
26 in.	3 ft. 1 in.	4 1/2 lbs.	5.50
28 in.	3 ft. 7 in.	5 1/2 lbs.	6.00
30 in.	3 ft. 10 in.	5 1/2 lbs.	6.50
32 in.	4 ft. 2 in.	6 1/2 lbs.	7.10
34 in.	4 ft. 6 in.	7 1/2 lbs.	8.00
36 in.	4 ft. 9 in.	8 1/2 lbs.	9.00
38 in.	4 ft. 11 in.	8 1/2 lbs.	10.00
40 in.	5 ft. 3 in.	9 1/2 lbs.	11.50

### NORTON TUYERE IRON



**183B3080**—Convenient, well made and low priced. Made of heavy cast iron. The blast is regulated by turning the large rod. Ashes removed by pulling small rod. Levers and springs easily changed to right or left-hand side. Length, 23 in. Width, 13 1/2 in. Height, 6 1/2 in. Average shipping weight, 27 lbs. Price, each, **96c**

### WARREN TUYERE IRON



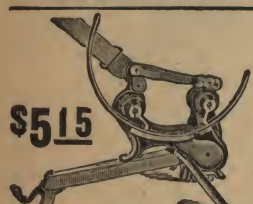
**183B3081**—A favorite with many. Made of heavy cast iron. Ball with unequal sides attached to upper handle regulates the blast. Lower rod is for removing ashes. Length, 29 in. Width, 15 in. Height, 14 1/2 in. Average shipping weight, 31 lbs. Price, each, **\$1.35**

### WHIRLWIND TUYERE IRON



**183B3084**—Blasts comes through three slots. Produces intense heat. Revolving clicker attachment. Length, 10 1/2 in. Width, 8 in. Height, 14 1/2 in. Average shipping weight, 56 lbs. Price, each, **\$4.50**

## BLACKSMITHS TIRE SHRINKERS



### PLAIN MOLE SHRINKER \$5.15

Without Anti-Kink Attachment. Made in three sizes. Strong and substantial, of the best materials, complete with wood lever. It is important that the tire be properly heated.

**183B3091**—Size No. 1. Width of bed, 2 1/4 in. For light buggy tires. Average shipping weight, 123 lbs. Price, each, **\$5.15**

**183B3092**—Size No. 2. Width of bed, 3 in. For medium work. Average shipping weight, 210 lbs. Price, each, **\$7.25**

**183B3093**—Size No. 3. Width of bed, 4 in. For heavy wagons. Average shipping weight, 270 lbs. Price, each, **\$9.60**

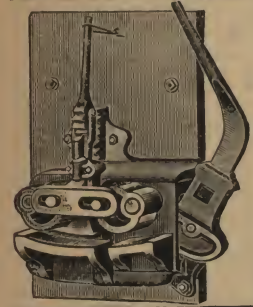


### MOLE TIRE SHRINKER (WITH ANTI-KINK ATTACHMENT)

It is not necessary to remove the tire until it is up to as much as required. The patent anti-kinking attachment holds the tire down and effectually prevents kinking or buckling. The pressure can be regulated by the foot. It is important that the tire be properly heated. Complete with 59 inch wood lever.

**183B3095**—Size 2. For medium work. Bed, 3 in. Length, 27 1/2 in. Average shipping weight, 212 lbs. Price, each, **\$8.45**

**183B3096**—Size 3. For medium and heavy work. Bed 4 in. Length, 29 in. Average shipping weight, 271 lbs. Price, each, **\$12.30**



### STODDARD TIRE UPSETTER \$9.30

Made of the best material, occupies but little space and can be operated by one man. Has only to be bolted to a plank and fixed upright; always ready for use. Will not kink the tire. We include a short lever only, to which a longer bar can easily be welded by any blacksmith.

**183B4002**—Size 2. Is a 4-in. machine. Will upset any tire up to 4 in. wide. Length, 15 in. Width, 15 in. Height, 18 in. Average shipping weight, 245 lbs. Price, each, **\$9.30**

**183B4003**—Size 3. Is a special 4-in. machine. Has a set of loose jaws, can be adjusted for large and small circles, also for upsetting axles from 1 in. to 1 1/2 in. square. Length, 24 in. Width, 19 in. Height, 20 1/2 in. Average shipping weight, 300 lbs. Price, each, **\$11.50**



### CHAMPION TIRE SHRINKER

**183B4005**—Will shrink any size tires up to 4 1/2 in. or axles up to 1 1/4 in. square. Place the tire between the jaws, then draw the cam against the tire, and with but a little pressure on the handle, you can shrink the tire to suit. It is important that the tire be always properly heated. Made of heavy cast iron. Compact and durable. Total length, about 24 inches. Total width, about 8 inches. Length of wood handle, about 45 inches. Average shipping weight, 150 lbs. Price, each, **\$8.65**



### LAKE-SIDE TIRE SHRINKER A RAPID POWERFUL MACHINE

**183B4008**—Lakeside Tire and Axle Shrinker. A stout, powerful machine. Frame is made of cast iron. Strong and well designed. The jaws are made from tool steel, with machine cut teeth, properly tempered, and can be quickly thrown in or out by means of the hand lever. Holds the tire with a perfect grip. Will shrink any size tire from the smallest buggy tire up to a round edge tire 4 in. wide by 1 in. thick, and axles up to 1 1/4 in. square. It is important that tires be properly heated. Total length, about 22 inches. Total width, about 9 inches. Total height, about 24 inches. Length of Lever, about 47 inches. Average shipping weight, 350 lbs. Regular \$25.00 value. Price, each, **\$19.85**



### HAND PUNCHING MACHINE

**183B4040**—A compact and substantial bench punch. Heavy cast iron, with hand lever. Capacity in soft steel or iron up to 1/2 in. thick of punching holes up to 3/4 inches diameter. Not suitable for work by which it would be subjected to a greater strain. Depth of throat, 4 in. Length of lever, 26 in. Complete with one 3/4 in. round punch and die. Weight of machine, 58 lbs. Average shipping weight, 70 lbs. Price, each, **\$13.25**

**EXTRA PUNCHES AND DIES**

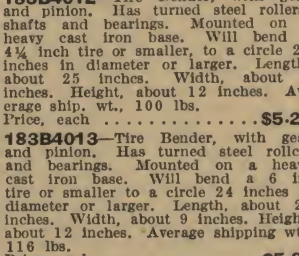
**183B4041**—For round holes, diameter 3/4 in. Average shipping weight, 1 lb. Price, per set, **\$1.95**

## TIRE BENDERS

### GEARED TIRE BENDERS \$5.25



### NEW EUREKA TIRE BENDER \$10.40



### TIRE MEASURING WHEEL



### RAISED GRADUATIONS

**183B4012**—Tire Bender, with gear and pinion. Has turned steel rollers, shafts and bearings. Mounted on a heavy cast iron base. Will bend a 4 1/2 inch tire or smaller, to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 8 inches. Height, about 12 inches. Average ship. wt., 100 lbs. Price, each, **\$5.25**

### 183B4013—Tire Bender, with gear and pinion.

Has turned steel rollers, shafts and bearings. Mounted on a heavy cast iron base. Will bend a 6 in. tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, about 12 inches. Average shipping wt., 116 lbs. Price, each, **\$5.80**

### 183B4018—A strong and powerful machine, with all the latest improvements.

Adjusting screws at each end of the roll, with graduated indicator on each side, shows exact size of tire being bent and gives operator full control over the work. The two end rolls have collars to keep the tire in alignment so both ends meet when bent. Two cranks with each bender. Has two speeds, one for light work, the other for heavy work. Will bend up to 4 1/2 in. tire. Total length, about 15 inches. Height, about 18 inches. Average shipping weight, 190 lbs. Price, each, **\$10.40**

### 183B4025—Genuine Wiley & Russell tire measuring wheel.

Accurate and durable. Made of hard service steel. The figures and lines are raised above the surface of the wheel and cannot be filled or de-faced with rust or dirt. It is exactly 24 inches in circumference and numbered every inch—from 1 to 24. Wheel is polished. With index hand. Strong cast iron handle. Average shipping weight, 1 1/4 lbs. Price, each, **\$1.30**

## BENCH LATHES AND BAND SAWS

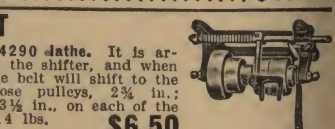
### ACCURATE BENCH LATHE

**183B4290**—An excellent bench lathe, carefully constructed. 24 in. long, with a swing of 7 in., and 12 in. between centers. Entire machine is well finished, with all steel parts polished, and body finished in machine enamel. Has a milled bed, hollow spindle, with 3/4 in. hole, and is provided with a No. 1 Morse taper. The tail stock is arranged for both screw and lever feed. We include with each lathe, a three-jawed chuck, capacity 0 to 1 1/4 in. 1 slotted face plate and 1 saw arbor. Diameter of pulley steps, 1 1/2, 2 1/2, 3 1/2 in. Weight, about 32 lbs. Shipping weight, about 40 lbs. Price, each, **\$12.95**



### COUNTERSHAFT

**183B4291**—Designed for use with 183B4290 lathe. It is arranged so that a treadle can be attached to the shifter, and when the pressure is removed from the treadle, the belt will shift to the loose pulley. Diameter of light and loose pulleys, 2 1/2 in.; Diameter of cone pulley, 1 1/2, 2 1/2, 3 1/2 in., on each of the respective steps. Average shipping weight, 14 lbs. Price, each, **\$6.50**



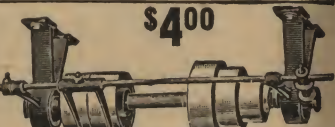
### TURNING LATHE SETS

**183B4295**—Lathe sets, substantially constructed and accurately fitted. The bottoms are planed true to insure the centers being in line. The heads on the No. 1 and 2 have steel spindles running in cast-iron bearings; centers are No. 1 Morse taper. The Nos. 3 and 4 have babbitted bearings, and centers are No. 2 Morse taper. Each set consists of: 1 head stock, 1 tail stock, 2 tee rests, 1 rest socket, 1 face plate, 1 common center, 1 spur center, hand wheel rests, flanges and bolts for fastening to the bed.

	Swings inches	Speeds on Cone	Width Belt	Ship. wt., about lbs.	Per Set
Size 1	6	3	1 1/2	18	\$ 7.00
Size 2	8	3	1 1/2	25	10.40
Size 3	12	3	1 1/2	80	15.50
Size 4	13	4	1 1/2	118	25.00

### COUNTER SHAFTS FOR LATHE SET

**183B4297**—High Grade Countershafts to use with above Lathe Sets. Two to four steps on cone pulleys match pulleys on lathe sets. (Give size.) Size, No. 1 No. 2 No. 3 No. 4 Ship. wt. lbs. 23 25 48 57 Price, each **\$4.00 \$5.00 \$7.00 \$8.25**

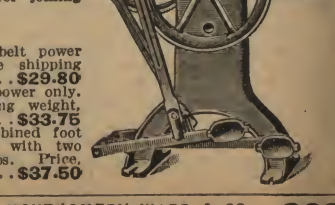


### BAND SAW MACHINES \$29.80 UP

A splendid machine for Carpenters, Wagonmakers, and small factories. The frame is cast in one piece, the arm portion being hollow, and rest of the frame is well ribbed, insuring utmost stiffness and durability with minimum weight. Wheels are covered with rubber bands and the table is built up of veneers. Size of tight and loose pulleys, 7 x 3 in. face. Total height of machine, 67 in. Length of blades, 10 ft. 1 in. Illustration shows the combination machine for foot and belt power, but we can supply it for belt power and foot power alone, as listed below. We include with each machine two blades 3/4 in. wide, filed ready for use, and 1 clamp and tongs for joining broken saws.

### 20-INCH MACHINE

**283B4050**—Band Saw Machines. For belt power only. Complete with two saws. Average shipping weight, 275 lbs. Price, each, **\$29.80**  
**283B4051**—Band Saw Machine for foot power only. Complete with two saws. Average shipping weight, 325 lbs. Price, each, **\$33.75**  
**283B4052**—Band Saw Machine for combined foot and belt power (as illustrated) complete with two saws. Average shipping weight, 350 lbs. Price, each, **\$37.50**  
 Shipped from factory in Ohio.





# BLACKSMITHS' HIGH GRADE EASY RUNNING POST DRILLS

## BALL BEARING POST DRILL



**WITH NEVER-SLIP CHUCK**

**REGULAR \$10.00 VALUE**

**183B4080**—Our Special Post Drill, fitted with easy running ball bearings, and with automatic self-feed attachment. Has two speeds, fast and slow, and can be quickly changed from one to the other to suit all kinds of work. Table is slotted, spindle has an up and down run of 3 in. Diameter of spindle 1 1/2 in., bored to take drill bits with 1/2-in. round shanks. Journal bearings are all ground to a true and accurate fit, will drill a hole up to 1 1/4 in. and to the center of a 15-in. circle. A light running durable machine which we are offering at a very low price. Average ship. wt., 110 lbs. Each, without drill bits **\$7.20**

**FAMOUS NEVER-SLIP CHUCK**

All of our Blacksmiths' Post Drills on this page are fitted with this Never-slip Chuck, which absolutely prevents the bit from turning or slipping.

**AUTOMATIC FEED DRILL FRAME FITS VARIOUS HAND DRILLS**

**183B4168**—Its use will convert our hand drills No. 85B1278, 85B1265 or 85B1270 into bench drill with automatic feed. Hand drills readily removable. Will drill to center of a 6-in. circle. Distance from chuck to table, about 9 in. Different ratios of feed obtainable by turning adjusting screw, or table may be raised and lowered by hand. Made of cast iron, with wrought steel upright and feed screw. Finely finished. Shipping weight, about 15 lbs. Each **\$2.75**

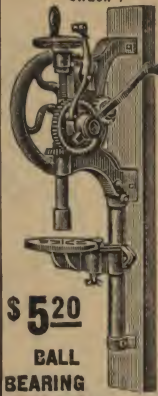
## HAND-FEED POST DRILL (With Never-slip Chuck)



**BALL BEARING**

**183B4085**—This machine will drill to the center of a 12-in. circle and will drill a hole up to 3/4 in. Diam. of spindle, 7/8 in. Has an up and down run of 3 in. It is made of the best material, bearings ground out of solid metal; spindle fitted for 1/2-inch round shank drills. Has a slotted swing table, is well finished and is a good reliable machine at a low price. Average shipping wt., 54 lbs. Each, without drill bits **\$3.60**

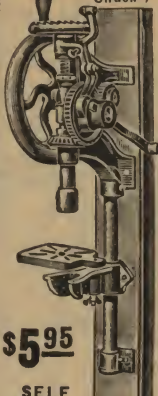
## CHAMPION SELF-FEED POST DRILL (With Never-slip Chuck)



**BALL BEARING**

**183B4088**—Champion Blacksmith Self-Feed Post Drill is made first class in every respect. Has a single speed, with back gear and self-feed attachment. All bearings are ground to a working fit, from the solid metal. Table is slotted and planed off on top side. Will drill hole up to 3/4-in. and to center of a 12-in. circle. Diameter of spindle, 7/8 in. Bored to take 1/2-in. round shank drills. A good durable machine at a low price. Average shipping weight, 80 lbs. Each (without drill bits) **\$5.20**

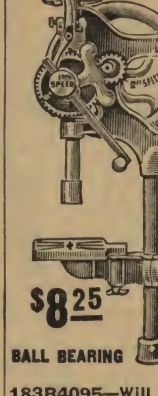
## CHAMPION SELF-FEED POST DRILL (With Never-slip Chuck)



**SELF FEEDING**

**183B4090**—A light running, high-class machine. Accurately cut gears. Will drill up to 1-in. holes to center of a 14 1/2-in. circle. Has full back gear with one speed. Diameter of spindle, 1 1/2 in. Feeds 3 1/2 in. Fitted with slotted swing table, and patent Never-slip chuck, to take drills with 1/2-in. round shanks. Average shipping wt., 90 lbs. Usual \$8.50 to \$10.00 retail value. Each (without drill bits) **\$5.95**

## CHAMPION POST DRILL (With Never-slip Chuck)



**BALL BEARING**

**183B4095**—Will drill to the center of a 15-in. circle, and up to 1 1/4 in. hole. All of the bearings are ground out of solid metal to a perfect fit. Has double journal bearings, with full back gear, also two speeds on the right hand side of the drill, which can be changed in an instant to suit all kinds of work. Diameter of spindle, 1 1/2 inches. The automatic self-feed is of the latest improved pattern. The table is large and slotted so the operator can securely bolt work on for drilling. Spindle is bored to take 1/2-in. round-shank drills. Average shipping weight, 115 lbs. Each (without drills) **\$8.25**

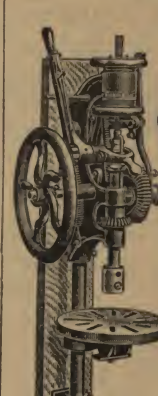
## CHAMPION BALL-BEARING POST DRILL (With Never-slip Chuck)



**BALL BEARING**

Will drill holes up to 1 1/4 in. and to center of a 16-inch circle. Fitted with easy running Ball Bearings. It is back geared, with an improved third gear principle, which gives the second speed the same crank motion as on the first speed. The improved third gear being part of the handle hub, therefore is disengaged when using first speed, saving the continuous labor of pulling along an intermediate gear while using the first speed. Has double journal bearings and self-feed attachment. Diam. of spindle, 1 1/2 in. Bored to take in 1/2-in. round shank drill bits. **183B4098**—With hand crank. (Without drills.) Av. ship. wt., 117 lbs. Each **\$9.85**

## CHAMPION COMBINATION POST DRILL



**NEVER-SLIP CHUCK BALL BEARING \$17.85**

Champion Improved Combination Automatic self-feed, and lever-feed up-right post drill. Has two speeds and double back gears. Crank turns in one direction. An easy running ball bearing machine. The self-feed and lever-feed are independent of each other and can be instantly changed. The drill bit can be raised out of the hole just bored and reset to bore the next hole without turning back the feed screw. Drills holes up to 1 1/4 in. and to the center of a 16-in. circle. Diam. of spindle, 1 1/4 in. Has an up and down run of 4 in. Chuck takes 1/2-in round shank drill bits. **183B4112**—With hand crank (without drill bits). Average shipping weight, 195 lbs. Each **\$17.85**

## BLACK DIAMOND POST DRILL (WITH NEVER-SLIP CHUCK)



**BALL BEARING**

**183B4103**—Champion Black Diamond Drill is a machine with merits worth looking into by all who are in want of a large and well-made blacksmith drill. The gearing is designed for easy and quick running. Will drill holes up to 1 1/2 in. and to the center of an 18-in. circle. Has both top and side flywheels. Both make two revolutions to one revolution of the crank. All bearings are ground out of solid metal. The second speed for heavy drilling is very convenient. Is changed in an instant simply by a change of the crank handle into the side fly-wheel. Complete with wheel-holder attachment to prevent scratching finished wheels. Spindle bored to take in 1/2-in. round shank drills. Average shipping wt., 200 lbs. Each (without drills) **\$13.85**

## CHAMPION QUICK RETURN DRILL (BALL BEARING WITH NEVER-SLIP CHUCK)



**BALL BEARING**

**183B4104**—The quick return can be thrown into place while the drill continues in motion, where it remains until the bit is raised out of the work, when it automatically stops, and requires no attention from the operator to start the next hole. The distance in the rising of the drill bit is adjusted by a thumb screw and automatically unshifts when out of the work. The crank has a forward motion on both 1st and 2d speeds. The bearings are ground out of the solid metal to perfect fit. Has two speeds, double journal bearings, slotted table, and self-feed attachment. Will drill up to a 1 1/4-in. hole and to center of 15-in. circle. Chuck takes 1/2-in. round shank drills. Average shipping wt., 126 lbs. Each (without drills) **\$9.85**

## LEVER-FEED POST DRILL (WITH NEVER-SLIP CHUCK) QUICK ACTION DRILL BALL BEARING



**\$7.10**

This drill was designed and built for light quick work. It is intended to be used as a second drill in up-to-date blacksmith shops, where tire drilling and counter-sinking are an object. This drill will pay for its cost in a short time, as three times more light work can be done on it than on any screw-feed drill. It is well made and bearings are ground out of the solid metal to a working fit. It drills to the center of a 14-in. circle and up to 3/4-in. hole. Spindle has an up and down run of 5 in.; has back gear. Spindle fitted for 1/2-in. round shank drill.

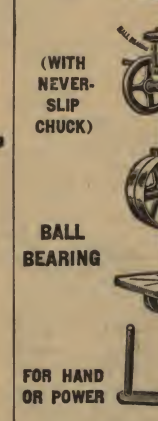
## CHAMPION CUT-GEARED DRILL (WITH NEVER-SLIP CHUCK) BALL BEARING FOR HAND OR POWER



**\$28.60**

Double gears cut quick and slow speed. Makes possible a large variety of work. Hand and automatic quick return feed. Patent rack for adjusting table. Wheel-Holder attachment prevents the scratching of finished wheels. Bearings ground out of the solid metal. Will drill holes up to 1 1/2 in. and to center of a 21-in. circle. Spindle bored to take 1/2-in. round shank drills. Pulleys, 10x2 1/2 in. Speed for ordinary work, 180 revolutions per minute. Length, 65 in. Shipping wt., 350 lbs. Usual \$35.00 to \$40.00 retail value. **183B4130**—With pulleys for power (without bits). Each **\$28.60**

## CHAMPION BLACKSMITH POST DRILL HAND AND SELF FEED BALL BEARING



**\$12.50**

**183B4110**—With Quick-Action. Features and points of similarity never before found in a drill at this price. Has two speeds—automatic self-feed, propeller wheel hand feed, and quick return. Simple and very substantially built. Enclosed ball bearings. Made from highest grade, lathe-turned tool steel. Saves 20 to 50 per cent power. All bearings ground out of the solid metal. No babbit is used. Lathe-turned slotted table. Diameter of spindle, 1 1/2 inches. Has up and down run of 5 1/2 inches. Spindle bored like patented Never-slip chuck, to take 1/2-inch straight shank drill bits. Will drill holes up to 1 1/2-in. Drills to the center of a 16 1/2-in. circle. Average shipping weight, 169 lbs. Each (without drill bits) **\$12.50**

# MECHANICS' WELL MADE PORTABLE BENCH DRILLS



**\$5.20**

**TWO-SPEED BENCH DRILL**

**THREE-JAWED CHUCK**

**183B4170**—Goodell-Pratt bench drill. Has solid iron frame, cut gears and two different speeds, quickly changed by a shifter conveniently located. Steel feed screw. Table is adjustable. Height from table to feed wheel, 18 in. Has a fine three-jawed chuck capacity 0 to 3/4 in. and eight fluted drill bits. Average shipping weight, 18 lbs. Each **\$5.20**



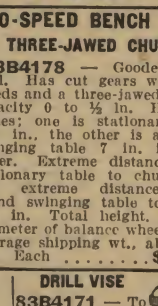
**183B4178**—Goodell-Pratt drill. Has cut gears with two speeds and a three-jawed chuck, capacity 0 to 1/2 in. Has two tables; one is stationary, size 7x6 in., the other is a round swinging table 7 in. in diameter. Extreme distance from stationary table to chuck, 11 in.; extreme distance from round swinging table to chuck 5 1/2 in. Total height, 26 in. Diameter of balance wheel, 8 in. Average shipping wt., about 64 lbs. Each **\$11.95**



**DRILL VISE**

**183B4171**—To fit 183B4170 in place of table. Jaws open 2 in. Average weight, 4 lbs. Price, **\$1.30**

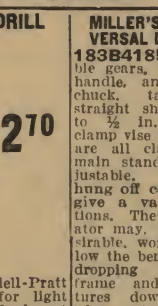
**183B4175**—To fit 183B4174 drill. Jaws open 1 1/2 in. Average weight, 1 1/2 lbs. Price, **98c**



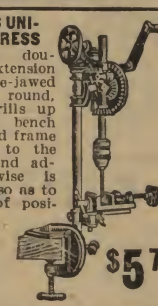
**183B4180**—Goodell-Pratt small bench drill for light work. Has a lever feed, cut gears, and a three-jawed chuck, capacity 0 to 3/4 in. Size of iron table, 8x5 1/2 in. Spindle travels 1 1/2 in. Distance from upright shaft to center of chuck 2 in. Total height, 12 in. Average shipping weight, 6 lbs. Each **\$2.70**



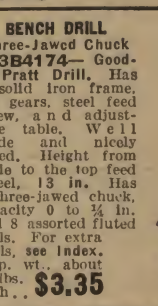
**183B4185**—Has double gears, with extension handle, and three-jawed chuck, taking round, straight shank drills up to 1/2 in. The bench clamp vise rest and frame are all clamped to the main standard, and adjustable. The vise is hung off center, so as to give a variety of positions. The operator may, if desirable, work below the bench by dropping the frame and fixtures down on the standard, and securing the upper end of the same in the bench clamp. Average shipping weight, 28 lbs. Price, complete, without drill bits **\$5.75**



**183B4150**—Horizontal Drill for Blacksmith's use. It has a heavy cast iron standard, length, 26 in. Chuck takes drill bits with square shank. Average shipping weight, 22 lbs. A big bargain at our price. Each, without drill bits, **\$1.35**



**183B4155**—Horizontal Drill for Blacksmith's use. It has a heavy cast iron standard, length, 26 in. Chuck takes drill bits with square shank. Average shipping weight, 22 lbs. A big bargain at our price. Each, without drill bits, **\$1.35**



**183B4158**—Set of Four Drills, as above. One each, 1/4, 3/8, 1/2, 3/4 in. Average weight, 11 oz. Per set **90c**

**183B4159**—Set of Eight Drills. One each, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 in. Average wt., 1 1/2 lbs. Per set **\$1.88**



**58B1055**—First Quality Twist Drills with 1/2 in. round shank. Best grade. For metal or wood. Each drill is carefully tempered, tested and finished. Shank is milled flat one side, to fit the Never-slip Chuck on all our Post Drills. Wts., 2 to 9 oz.

Diam. In.	Each	Diam. In.	Each	Diam. In.	Each	Diam. In.	Each
1/8	13c	5/16	25c	3/4	32c	1 1/4	44c
3/16	14c	3/8	26c	7/8	33c	1 1/2	46c
1/4	15c	7/16	27c	1	34c	1 3/4	48c
5/16	16c	1/2	28c	1 1/8	35c	2	49c
3/8	17c	5/8	29c	1 1/4	36c	2 1/4	51c
1/2	18c	3/4	30c	1 3/4	37c	2 1/2	53c
5/8	19c	1	31c	2	38c	2 3/4	55c
3/4	20c	1 1/8	32c	2 1/4	39c	3	56c
1	21c	1 1/4	33c	2 1/2	40c	3 1/4	58c
1 1/8	22c	1 3/8	34c	2 3/4	41c	3 1/2	60c
1 1/4	23c	1 1/2	35c				



# HAND AND FOOT POWER GRINDERS—EXTRA VALUES

### EMERY FOOT GRINDER

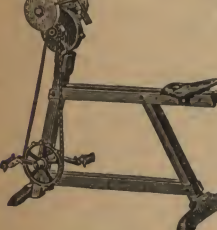
#### STEEL FRAME

**183B4218**—For all kinds of grinding. Fast cutting. Corundum wheel, 6x1 1/4 in. One-piece steel spindle and pinion. Gears accurately milled and encased. Strong wrought steel frame. Nicely japanned. Two pedals. Adjustable steel seat and tool rest. Shipping weight, 65 lbs. Each... **\$4.95**



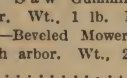
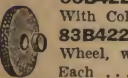
### EMERY FOOT GRINDER

**183B4226**—Hardwood frame. With enclosed machine cut gears. Ball bearing, bicycle pedals, and steel drive chain. Has two fast cutting wheels, one coarse, one fine. Size, 6 1/2 x 1 in. Ship. wt., 68 lbs. Each... **\$10.50**



**83B4227**—Saw Gumming Wheel. With Collar. Wt., 1 lb. Each... **45c**

**83B4228**—Beveled Mower Knife Wheel, with arbor. Wt., 2 1/2 lbs. Each... **90c**



### FAMILY GRINDSTONES

**183B4340**—Handy grindstone mounted on ball bearings. Selected stones. Light running and first class in every respect. Diameter of stone, 8 in. Average shipping wt., 15 lbs. Each... **98c**



### GRINDER WITH LATHE ATTACHMENT

**183B4231**—For rapid grinding, wood turning, etc. Geared grinder with adjustable foot treadle and lathe bed. With 4x1 in. aluminum wheel and screw chuck for wood. Steel and cast iron. Well made and serviceable. Length of bed, 18 in. Will swing 5 in. Ship. wt., about 30 lbs. Each... **\$4.95**



### CLOTH BUFFING WHEELS

**83B4270**—Made of Unbleached Muslin. Each wheel is of 20-ply or thickness, sewed together. Average wt., 2 to 8 oz. Give size. Diam., in. 4 6 8 10 12 Each... **5c 10c 15c 25c 35c**



### EMERY WHEEL DRESSER

**83B4275**—For Truing, shaping and removing glaze from emery wheels while running at full speed. Weight, 1 1/2 lbs. Each with two sets of cutters... **28c**

**83B4276**—Extra Cutters. Weight, per dozen sets, 1 1/2 lbs. Per set... **60c**



### SHERMAN WHEEL DRESSER

**83B4280**—Fast cutting corrugated tool steel cutters; especially for large wheels or grindstones. Diameter cutter discs, 1 1/2 in. Weight, 1 1/2 lbs. Each, with two sets of cutters... **45c**

**83B4281**—Extra cutters, set... **7c**



Since we started this business, way back in 1872, we've made a lot of changes and improvements in our service, but our principles and our methods of conducting our business are still the same. We have never allowed ourselves to forget that we could not succeed unless we so conducted our affairs that we would have the confidence of our customers.

### ADJUSTABLE BEARINGS

#### FLOOR STANDS

Furnished with Grinder Heads Shown at Right

Heavy cast iron columns with tool retaining rings around top. An excellent mounting. Following are the dimensions. Ht. Wt. Size in lbs.

1	32	32
2	32	37
3	32	75
4	28	100

**183B4241**—Without Floor Stand. Ship. wt., about 12 lbs. Each... **\$2.05**

**183B4242**—With Stand. Height, 32 in. Ship. wt., about 60 lbs. Each... **\$5.25**



### EMERY FOOT GRINDER

**\$3.70**

HIGH SPEED  
EASY RUNNING

**183B4222** Is gear driven, with new positive ball clutch and cone bearings. Will grind any kind of metal, hard or soft, and has a wide range of usefulness. Can be fastened to a wall or bench. Speed, 3,000 to 4,000 revolutions per minute. Fitted with high grade, 6 inch emery wheel, 3/4 inch thick. With 5/8 inch steel shaft. Total height, 42 inches. Shipping weight, 20 lbs. Each... **\$3.70**



### BALL-BEARING GRINDSTONE

USUAL RETAIL PRICE, \$4.50

OUR PRICE  
ONLY  
**\$2.90**

**183B4320**—Steel Frame Grindstone, nicely painted. With easy-running Ball-Bearings. Fitted with a smooth, even grit, best quality Ohio grindstone. Frame is made of angle steel, strong and rigid, with comfortable steel seat and light-running ball-bearings. Size of stone, diameter, about 20 in.; thickness, 2 in. A big bargain at our price. Shipping weight, about 90 pounds. Each... **\$2.90**



### EMERY FOOT GRINDER

**183B4223**—For general grinding, sharpening, and polishing. Strong wrought steel frame with pedals and adjustable seat. Operators' hands are free. Fly-wheel with two round belts drives an emery wheel, 8x3 in. at high speed. Quiet running. Babbitted bearings. One end of spindle has thread to hold buffing wheels. Very satisfactory and an excellent value. Ship. wt., 65 lbs. Each... **\$6.60**



### WOOD FRAME GRINDSTONE

#### BALL BEARING

**183B4322**—Extra heavy solid wood frame, neatly painted. Extra quality Ohio stone. Has ball bearings and a comfortable steel saddle seat. A very strong, easy-running machine. Weight of stone about 75 lbs. Shipping weight, about 100 lbs. Each... **\$2.95**

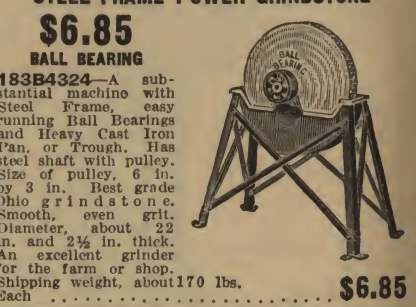


### STEEL FRAME POWER GRINDSTONE

**\$6.85**

#### BALL BEARING

**183B4324**—A substantial machine with Steel Frame, easy running Ball Bearings and Heavy Cast Iron Pan, or Trough. Has steel shaft with pulley. Size of pulley, 6 in. by 3 in. Best grade Ohio grindstone. Smooth, even grit. Diameter, about 22 in. and 2 1/2 in. thick. An excellent grinder for the farm or shop. Shipping weight, about 170 lbs. Each... **\$6.85**



## HIGH SPEED TOOL GRINDERS

The very latest design in grinding machines with machine cut encased gears. Run quietly and with remarkable ease. Fast cutting genuine Corundum wheel. Wet or dry. Just the thing for all general grinding such as knives, scissors, chisels, drill bits, etc. With adjustable tool rest. Clamp to bench or table.

**NOTE OUR VERY LOW PRICES**

**EASY TO KEEP YOUR TOOLS SHARP**

Model	Speed	Wheel Size	Weight	Price
183B4200	High	4 in. wheel, 3/4 in. thick	Shipping weight, about 5 lbs.	<b>\$1.20</b>
183B4201	High	5 in. wheel, 1 in. thick	Shipping weight, about 8 lbs.	<b>\$1.60</b>
183B4202	High	6 in. wheel, 1 in. thick	Shipping weight, about 13 lbs.	<b>\$2.25</b>
183B4203	High	7 in. wheel, 1 in. thick	Shipping weight, about 18 lbs.	<b>\$2.65</b>

### LAKESIDE EMERY-CORUNDUM WHEELS

CAN BE USED WET OR DRY

Will not glaze or fill up. Even tempered, uniform, and practically free from dust and odor. Are thoroughly waterproof, can therefore be run either wet or dry, as preferred. Our Lakeside Wheels are made from best grades of pure corundum and emery, which are the hardest and best abrasives known for grinding purposes. They are rigid, cool cutting, and durable wheels, and will give perfect satisfaction.

Note—When ordering Emery Wheels, please give diameter, thickness, size of hole, shape of face, and purpose or class of work. We shall always select a wheel of a grade and temper best adapted for your work.

#### LAKESIDE TOOL AND CUTLERY WHEELS

Adapted for general work, such as sharpening tools, knives, axes, etc. Can be used either wet or dry.

**83B4250**—Square face wheels. **83B4252**—Round face wheels.

THICKNESS OF WHEELS IN INCHES									
Diam. Wheel Inches.	1/4	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
9	\$0.08	\$0.11	\$0.12	\$0.13	\$0.14				
9 1/4	.09	.13	.15	.16	.17				
9 1/2	.12	.15	.18	.21	.22	\$0.25			
9 3/4	.17	.22	.25	.29	.32	.36			
10	.23	.27	.32	.36	.41	.50			
10 1/4	.32	.36	.40	.47	.52	.63	\$0.84		
10 1/2	.48	.54	.59	.69	.81	1.04	1.26	\$1.49	\$1.95
10 3/4		.77	.84	.99	1.13	1.44	1.74	2.00	2.70
11			.90	1.13	1.35	1.67	2.03	2.47	3.15

A wheel 6 in. by 1/2 in. weighs about 1 1/2 lbs. A wheel 12 in. by 1 in. weighs about 11 1/2 lbs.

### BLACKSMITHS' SPECIAL WHEELS

**83B4255**—Square Face. Rapid cutting, durable wheels for all kinds of rough work. Particularly adapted for iron and steel castings, plows, agricultural implements, etc. Prices are each. Wheel, 10 x 1 1/2, weighs 11 1/2 lbs. Wheel, 16x2 1/2, weighs 7 lbs. Used either wet or dry.

Diameter inches	Thickness of wheel in inches			
	1 1/4	1 1/2	2	2 1/2
8	\$1.25	\$1.50	\$1.95	\$2.15
10	1.74	2.00	2.70	2.90
12	2.05	2.47	3.15	3.50
14	2.90	3.15	4.08	4.75
16	3.75	4.07	5.25	6.15

#### SPECIAL SAW GUMMERS

**83B4260**—Round face. Made to meet the demand for a fast cutting wheel that will not case-harden or burn a saw. They are thoroughly waterproof. Suitable for any climate, and can be run either wet or dry. A wheel 8x1 1/2 in. weighs 3 1/2 lb., 12x2 1/2 in. weighs 7 lbs. Give size. Prices are each.

Diam. In.	THICKNESS—Inches			
	1/4	1/2	3/4	1
6	\$0.60	\$0.68	\$0.73	\$0.85
8	.76	.85	.89	1.04
10	.88	.98	1.10	1.24
12	1.00	1.12	1.25	1.48
14	1.20	1.32	1.45	1.72
16	1.44	1.62	1.60	2.00

### LAKESIDE LIGHTNING GRINDERS

**83B4258**—Special fast cutting grinding wheels for edge tools. Will put a keen, smooth edge on any tool in one-fourth the time required with an ordinary wheel. Will not readily burn steel or draw temper. Water not required. Prices are each. A wheel 6x3/4 in., weighs 2 1/2 lbs. Wheel 10x1 1/2 in. weighs 11 1/2 lbs.

Thickness—Inches				
Diam. In.	1/4	1/2	1	1 1/2
4	\$0.62	\$0.72		
6	1.08	1.40	\$1.65	
8	1.62	2.05	2.50	\$2.95
10	2.25	2.85	3.45	4.10

### UNMOUNTED GRINDSTONES

**183B4335**—Smooth even grit, fast cutting. Weights given will vary somewhat. Give size.

Size	Diam. in.	Approx. Ship. wt. lbs.	Each
1	16	40	\$0.48
2	18	50	.60
3	20	60	.72
4	22	80	.96
5	24	100	1.20
6	26	120	1.44
7	28	150	1.80
8	30	175	2.10
9	30	200	2.40

### GRINDSTONE FIXTURES

**83B4345**—Heavy cast iron. Japanned.

Length	Average weight	For stone	Per set
15 in.	4 1/2 lbs.	50 lbs.	25c
17 in.	5 1/2 lbs.	60 lbs.	28c
19 in.	5 1/2 lbs.	80 lbs.	30c
21 in.	6 1/2 lbs.	100 lbs.	34c

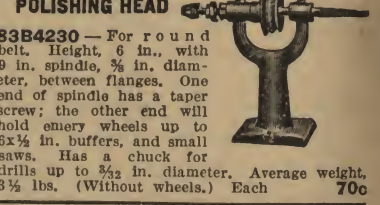
### BALL BEARING FIXTURE 59c

**83B4350**—Made with steel axle. Length, about 10 in. Will support a stone up to 30x3 in. Has ball-bearing journals. Average weight, 5 1/2 lbs. With one crank treadle and one hand crank. Per set... **59c**



### POLISHING HEAD

**83B4230**—For round belt. Height, 6 in., with 9 in. spindle, 3/4 in. diameter, between flanges. One end of spindle has a taper screw; the other end will hold emery wheels up to 6x1 1/2 in. buffers, and small saws. Has a chuck for drills up to 3/4 in. diameter. Average weight, 3 1/2 lbs. (Without wheels.) Each... **70c**



### COUNTER SHAFTS

**183B4240**—Strong, well balanced, nicely finished. Steel shafts. Iron pulleys. Give size.

Size	1	2	3	4
Drive pulley	8x2	9x2 1/2	10x3 1/2	12x4
Other pulleys...	3"x2	4"x2 1/2	5"x3	5"x3 1/2
Driver...	5 in.	6 1/2 in.	6 1/2 in.	8 in.
Hanger...	18 in.	21 in.	24 in.	26 in.
Length shaft	3/4 in.	1 in.	1 in.	1 1/4 in.
Diam. shaft	27 lbs.	41 lbs.	50 lbs.	68 lbs.
Ship. wt.	\$2.45	\$3.60	\$4.25	\$4.95
Each				

## POWER EMERY GRINDING MACHINES

ACCURATELY FITTED

#### HEAVY FLOOR GRINDER

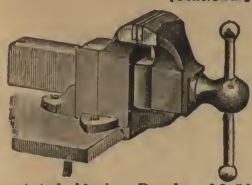
**183B4249**—Has tight and loose pulleys. Long bearings, well babbitted, with dust-proof collars. Adjustable rests. Will carry two wheels, 12x2 in. or smaller. Height, arbor to floor, 36 in. Length, arbor, 36 in. Distance between wheels, 16 1/2 in. Diam. arbor between collars, 1 in. Size pulleys, 3 1/2 x 3 in. face. Ship. wt., about 166 lbs. Each... **\$1250**

Size	1	2	3	4
Will run two wheels	6x1 in. thick. Steel arbor 9 1/4 in. long, 3/4 in. diameter in bearings. Pulley 2x2 in. face. Height, to center of arbor, 5 in.	10x1 1/2 in. thick. Steel arbor 14 in. long, 1 1/4 in. diameter in bearings. Pulley 2 1/2 x 2 in. face. Height, to center of arbor, 7 1/2 in. Two adjustable rests.	Will run two wheels 12x2 in. thick. Steel arbor 18 in. long, 1 1/4 in. diameter in bearings, and 1 inch diameter between flanges. Pulley 4x3 inch face. Height, to center of arbor, 8 in. Has two rests which can be set at any angle.	Will run two wheels 16x2 in. thick. Steel arbor 25 in. long; diameter in bearings 1 1/4 in.; diameter between flanges, 1 1/4 in. Height, to center of arbor, 9 1/4 in. Pulley 4 1/2 x 4 in. face. Complete with adjustable rests.
183B4241—Without Floor Stand. Ship. wt., average 32 lbs. Each... <b>\$4.20</b>	183B4242—With Stand. Hgt., 32 in. Ship. wt., about 93 lbs. Each... <b>\$7.50</b>	183B4245—Without Floor Stand. Ship. wt., average 32 lbs. Each... <b>\$6.25</b>	183B4247—Without Floor Stand. Ship. wt., average 88 lbs. Each... <b>\$8.25</b>	
183B4243—Without Floor Stand. Ship. wt., average 32 lbs. Each... <b>\$4.20</b>	183B4244—With Stand. Hgt., 32 in. Ship. wt., about 114 lbs. Each... <b>\$11.20</b>	183B4246—With Stand. Hgt., 32 in. Ship. wt., about 114 lbs. Each... <b>\$11.20</b>	183B4248—With Stand. Height, 28 1/2 in. Ship. wt., about 183 lbs. Each... <b>\$14.50</b>	



# MECHANICS' HIGH GRADE VISES AND CLAMPS

## MACHINISTS' VISE (Stationary Bottom)

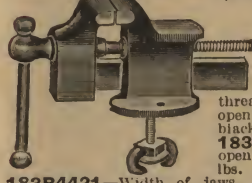


painted black. Regular \$3.50

**183B4400** — Machinists' Bench Vises of superior quality and workmanship. They are full size, properly proportioned, strong and substantial, made of heavy cast iron. Fitted with tempered steel jaws, nicely polished. Strong wrought steel screw with cut threads. Slide is well fitted so jaws will open parallel. Body of vise neatly painted black. Give size.

Width Jaws In.	Jaws Open In.	Average Ship. Wt., lbs.	Each
3 1/2	4 1/2	28	\$2.60
4	5 1/2	38	3.20
4 1/2	6	48	3.80
5	7	56	4.50

## MACHINISTS' VISES (Swivel Bottom)

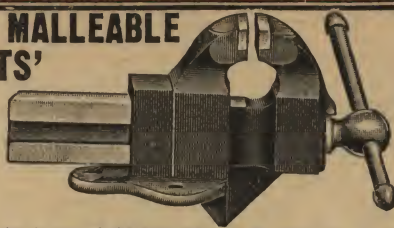


Machinists' Bench Vises, with steel faced jaws. Easy to adjust. Can be used as either stationary or swivel bottom vise. Made of cast iron. Strong and well proportioned. Exposed wrought steel screw with cut threads. Slide is well fitted so jaws will open parallel. Body of vise neatly painted black.

**183B4420**—Width of jaws, 2 1/2 in. Will open 3 in. Average shipping weight, 12 lbs. Each...**\$1.20**  
**183B4421**—Width of jaws, 3 1/2 in. Will open 4 1/2 in. Average shipping weight, 17 lbs. Each...**\$1.75**  
**183B4422**—Width of jaws, 4 in. Will open 6 in. Average shipping weight, 28 lbs. Each...**\$2.45**

## LAKESIDE MALLEABLE MACHINISTS' VISE

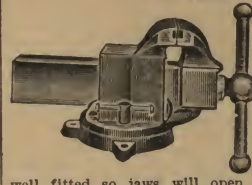
Tempered  
Steel Jaws  
Extra  
Quality



**183B4408**—This vise is one of the best that can be obtained. It is unbreakable under ordinary usage. Made of high grade malleable iron throughout, except the screw and handle. Screw and handle are solid forgings. Screw has accurately cut threads. Both jaws are faced with tool steel. All parts are accurately fitted. Stationary bottom, heavy and substantial.

Width Jaws	Jaws Open	Average ship. wt.	Each
3 1/2 in.	5 in.	26 lbs.	\$3.15
4 in.	6 in.	33 lbs.	3.85

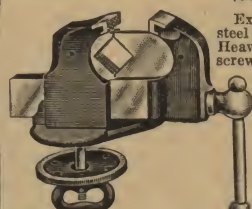
## MACHINISTS' VISE (Swivel Bottom)



**183B4405**—Well made, durable machinists' Bench vise. Full size, properly proportioned, strong and substantial. Made with a swivel bottom so the vise can be turned to convenient angles. Made of heavy cast iron. Fitted with tempered steel jaws, nicely polished. Strong wrought steel screw with cut threads. Slide is well fitted so jaws will open parallel. Body of vise neatly painted black. Give size.

Width Jaws, In.	Jaws Open, In.	Average Ship. Wt., lbs.	Price Each
3 1/2	4	23	\$3.20
4	5 1/2	36	3.75
4 1/2	6	45	4.60
5	7	63	5.20

## GENUINE H. D. SMITH COMBINATION PIPE VISE (Swivel Base)



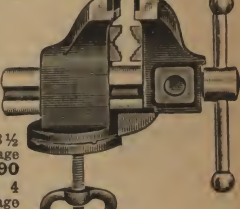
Extra strong and heavy, with removable steel facing on jaws. Famous for its quality. Heavy cast iron body. With strong steel screw having cut threads. Slide is accurately fitted so jaws will open parallel. Fitted with tempered steel sliding pipe jaws. Well made swiveling arrangement. Well finished.

**183B4520**—Size 1. Width of jaws, 3 1/2 inches. Takes 1/2 to 2 in. pipe. Average shipping wt., 46 lbs. Each...**\$4.80**  
**183B4521**—Size 2. Width of jaws, 4 inches. Takes 3/4 to 3 in. pipe. Average shipping wt., 68 lbs. Each...**\$5.95**

## COMBINATION PIPE VISE (Swivel Base)

A good combination Bench and Pipe Vise. Steel faced jaws. Heavy slide, and enclosed screw with cut threads. Made of heavy cast iron. Strong and well proportioned. Slide is well fitted so jaws will open parallel. Fitted with tempered steel pipe jaws. Nicely painted black.

**183B4523**—Size 1. Width of jaws, 3 1/2 inches. Takes 1/2 to 2 in. pipe. Average shipping wt., 30 lbs. Each...**\$3.90**  
**183B4524**—Size 2. Width of jaws, 4 inches. Takes 3/4 to 3 in. pipe. Average shipping wt., 40 lbs. Each...**\$4.85**



## 92c ANVIL AND VISE COMBINED



work. Average shipping wt., 25 lbs. Usual value, \$1.25 and up. Each

**183B4480**—A popular, low priced combination tool for the farmer or householder. Chilled face cast iron anvil, with horn; vise with 3 1/2 in. chilled flat jaws and pipe jaws. Jaws open 3 1/2 in. Being made of cast iron, it is not intended for heavy work. Average shipping wt., 25 lbs. Each...**92c**

### HAND VISE



### HAND VISE



### ALFORD VISE



**83B4468** — Cast steel jaws. Wrought screw and pin. Hardwood handle. Length, 6 in. Width of jaws, 1 1/2 in. Average wt., 9 oz. Each...**45c**  
**83B4467** — Substantially made of iron. Holds taps, drills, wire, etc. Aluminum finish. Width of jaws, 1 1/2 in. Will open 1/2 in. Average wt., 11 oz. Each...**24c**  
**83B4470** — Tempered steel jaws, 1 1/2 inch for every 2 in. Nickel plated. Removable rosewood handle containing 7 tools. With attachment to fit brace. Average wt., 1 lb. Each...**\$1.55**



## BLACKSMITH SOLID BOX VISE A 35 Pound \$3.40 Vise for

**183B4490**—Our Blacksmith Solid Box Vises are heavy, substantial, properly proportioned, and are among the finest goods on the market. THEY HAVE SOLID THREAD BOXES, WITH STEEL SCREWS, the threads of which are deep and accurately cut. Loose collars prevent binding. Steel-faced jaws, carefully hardened and tempered.

WILL STAND THE MOST SEVERE USAGE. They are all made full size, of the best material and will prove satisfactory in every detail. Usual retail price \$5.00 to \$10.00. Each.

Note.—The number stamped on the Vise corresponds to its approximate weight. No. 183B4490. Give size.

Size	Width of Jaw, about	Each	Size	Width of Jaw, about	Each
35	3 1/2 in.	\$3.40	65	5 in.	\$4.90
40	4 in.	3.70	70	5 1/2 in.	5.25
45	4 1/2 in.	3.85	75	6 in.	5.60
50	4 1/2 in.	4.05	80	6 1/2 in.	6.15
55	4 3/4 in.	4.20	100	6 in.	7.75
60	5 in.	4.60			

## IMPROVED COMBINATION ANVIL, VISE AND DRILL \$285



**183B4484** A strong substantial combination. The draw bar is made of steel T-rail; will not break. The vise jaws are faced with steel, and polished, and the face of the anvil is case hardened, polished, and provided with a steel handle. It is easily and quickly manipulated, no screws or bolts to take out. Capable of a wide range of work and will not break, with ordinary practical use. Width of jaw, 3 1/2 in.; will open 6 in. Depth of throat, 5 1/2 in. Total height, 8 1/2 in. Average shipping wt., 44 lbs. Chuck fitted for drill bits with square shanks. Each (without drill bits)...**\$2.85**

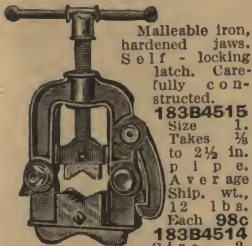
## PARALLEL BENCH VISE

**183B4428**—Oval Slide Bench Vise. Made of cast iron, with steel faced jaws, accurately fitted wrought screw. A good vise for light or medium work. Give size.



Width Jaws	Average Ship. Wt.	Each
2 1/2 in.	7 1/2 lbs.	\$0.85
3 in.	13 lbs.	1.05
4 in.	30 lbs.	1.85

## MALLEABLE PIPE VISE



Takes 1/4 to 3/4 in. pipe. Average ship. wt., 15 lbs. Each...**\$1.55**

## MALLEABLE PIPE VISE



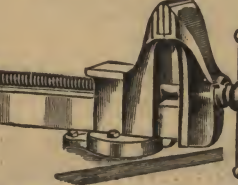
**183B4512** Light weight, compact vise, designed to carry in tool kit. Can be used with or without bench clamp shown. Malleable iron, hardened jaws. Takes 1/2 in. to 2 in. pipe. Average weight, 7 1/2 lbs. Each...**\$1.20**

## WOODWORKERS' VISES



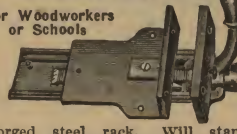
**183B4440**—Made of steel, with double thread screw, which moves the jaw one inch for every two turns of handle. Jaw is faced with hard maple. Hardwood handle. Width of jaw, 10 inches; opens 10 inches. Average ship. wt., 14 lbs. Each...**\$1.60**

## WOODWORKERS' VISE Stationary or Swivel Base



With high jaws, steel faced. Width of jaws, 4 in. Will open 9 in. A strong, substantial vise. Heavy cast iron body. Steel screw.  
**83B4430** — With Stationary Bottom. Average ship. wt., 50 lbs. Each...**\$3.90**  
**183B4431**—Same size, but with Swivel Bottom. Average ship. wt., 57 lbs. Each...**\$4.20**

## QUICK ACTING VISE For Woodworkers or Schools



Forged steel rack. Will stand any ordinary wear or strain.  
**183B4442** — Jaws, 3x7 in. Opens 3 1/2 in. Ship. wt., 23 lbs. Each...**\$2.95**  
**183B4443** — Jaws, 3 1/2x8 in. Opens 1 1/2 in. Ship. wt., 30 lbs. Each...**\$3.90**

## RAPID ACTING VISE For Woodworkers



Substantially made of steel and cast iron with a simple, quick-action movement. Instantly adjusted and securely locked or released by a short turn of the lever. Can also be used as an ordinary screw vise. One of the best vises made for woodworkers.  
**183B4445**—Width of jaw, 7 in. Will open 8 1/2 in. Average ship. wt., 27 lbs. Each...**\$3.25**  
**183B4446**—Width of jaw, 10 in. Will open 12 in. Average ship. wt., 36 lbs. Each...**\$4.45**

## SMALL CLAMP VISE



Clamps on table. Sliding rear jaw. Cast iron. Japan finish.  
**83B4452**—Width of jaws, 1 1/2 in. Will open 2 in. Average wt., 1 1/2 lbs. Each...**23c**  
**83B4453**—Width of jaws, 2 in. Will open 2 in. Average wt., 3 lbs. Each...**40c**

## HIGH GRADE SMALL VISE



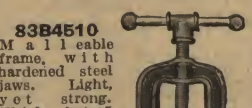
Stanley Bench Vises. Strong cast iron. Extra quality.  
**83B4460** Jaws 1 1/2 in. Will open 2 1/2 in. Average wt., 3 lbs. Each...**52c**  
**83B4461**—Jaws 2 in. Will open 2 1/2 in. Average wt., 3 1/2 lbs. Each...**80c**

## PIPE WRENCH VISE



**83B4518**—Genuine 14-inch Stillson wrench with an ingenious, strong, cast iron clamping frame. Securely holds pipe to 1 1/2 in. An excellent light combination for the tool bag. Wrench instantly removable. Wt., 7 1/4 lbs. Green value. Complete...**\$1.38**

## LIGHT PIPE VISE



**83B4510** Malleable frame, with hardened steel jaws. Light, yet strong. Weighs but 5 lbs. Handy for gas and steam-fitters' use. Holds pipe up to 2 in. Average shipping wt., 5 lbs. Each...**95c**

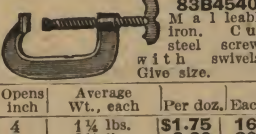
## WOOD HAND SCREWS



Our Wood Hand Screws are made from selected seasoned timber, correctly shaped and well finished. Screws are second growth hickory, tough and durable. Average wt., each, 1 1/2 to 2 1/2 lbs. Give size.

Diam.	Length	Size of Jaw, in.	Per Dozen	Each
1/4	10	1 1/2 x 1 1/2	\$2.40	20c
1/4	12	1 1/2 x 1 1/2	2.90	25c
1/4	14	1 1/2 x 1 1/2	3.40	30c
1/4	16	1 1/2 x 1 1/2	3.70	33c
1/4	18	1 1/2 x 1 1/2	4.00	35c

## MALLEABLE CARRIAGE CLAMPS



**83B4540** Malleable iron. Cut steel screws with swivels. Give size.

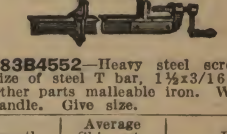
Opens	Average	Per doz.	Each
4 in.	1 1/2 lbs.	\$1.75	16c
5	2 1/2 lbs.	2.30	20c
6	3 1/2 lbs.	2.90	25c
7	4 1/2 lbs.	3.50	30c
8	5 1/2 lbs.	4.00	34c
10	7 1/2 lbs.	4.95	42c

## MALLEABLE CABINET CLAMPS



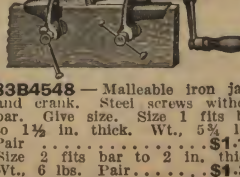
**83B4545**—Fit any bar 1 1/2x2 1/2 in. Heavy steel screw, sliding head, 1 1/2 in. square. Malleable guides. With tail piece. Without bar. Wt., pr., 4 1/4 lbs. Pair...**\$0.42**  
Doz. pairs...**4.85**

## T-BAR STEEL CLAMPS



**183B4552**—Heavy steel screws. Size of steel T bar, 1 1/2x3/16 in. Other parts malleable iron. Wood handle. Give size.

Length	Average Ship. wt.	Each
9 ft.	7 lbs.	\$0.98
3 ft.	8 lbs.	1.35
4 ft.	9 lbs.	1.55
5 ft.	10 lbs.	1.70



## UNIVERSAL CLAMPS

**83B4548**—Malleable iron jaws and crink. Steel screws without bar. Give size. Size 1 fits bar to 1 1/2 in. thick. Wt., 5 1/2 lbs. Pair...**\$1.10**  
Size 2 fits bar to 2 in. thick. Wt., 6 lbs. Pair...**\$1.30**

## HARGRAVE'S PERFECTION CLAMPS

**183B4560**—Genuine Hargrave's Perfection Special Clamps. Powerful and rapid acting. With steel bar malleable iron parts and wrought iron screws. Size of bars, 1 1/2x1/4 in. Give size.

Length	Average Ship. Wt.	Each
3 ft.	8 lbs.	\$1.35
4 ft.	9 lbs.	1.50
5 ft.	10 lbs.	1.70



# ANVILS OF QUALITY AT REAL SAVINGS

## SPECIAL FARMERS' ANVILS CHILLED IRON FACE



Weight 50 lbs. Each.....\$1.60  
Weight 70 lbs. Each.....2.20  
Weight 100 lbs. Each.....3.15

## STEEL PLOW ANVIL



83B4598—Flow anvil, extra quality, solid cast steel; oil finish, polished rounded face. Large shank affords secure grip. Convenient for sharpening plow shares without removing. Weight, about 4 lbs. Each.....45c

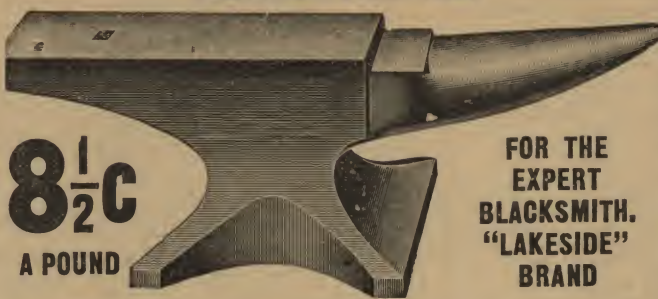
## HANDY BENCH ANVIL



83B4595—Made of solid cast-iron, the face and horn accurately dressed, polished and nickel plated, and the body finished in red machine enamel. A handy bench anvil for the mechanic or householder. The base is of sufficient spread to prevent anvil from tipping. Total length, 8 in.; size of face, 5 1/4 x 1 1/4 in.; height, 3 1/2 in. Weight, about 7 1/2 lbs. Made in one size only. Each.....56c

We cannot supply hardies or other anvil tools to fit this anvil. Intended for light bench work only.

## STANDARD AMERICAN WROUGHT ANVILS TEMPERED STEEL FACE



8 1/2 C  
A POUND

FOR THE  
EXPERT  
BLACKSMITH.  
"LAKE-SIDE"  
BRAND

83B4580—The bodies of our American wrought anvils are forged from the best and toughest iron, welded at the waist, and faced with the finest quality of high grade tool steel, carefully welded on and will not come loose. The face is hard and true, and tempered by a special process which prevents the edges from chipping, giving a hard surface without being brittle.

The shape is of the latest improved design, graceful and practical, and each anvil rings true and clear as a bell. There is no better anvil made, and many thousands of them are now in daily use.

Made by skilled workmen in the best possible manner and thoroughly inspected and tested before leaving the factory.

Should this anvil break at the waist or its steel face become loose within one year from date of purchase, it will be replaced without charge.

You will find that these anvils combine the best materials and workmanship, are graceful in design, with a long, perfectly shaped horn, and equal in quality and finish to any anvil made. The base is of proper spread to insure against tipping.

We cannot always send exact weight, but will send the nearest we have to size wanted. (Give weight wanted.) Buy our Lakeside American Wrought Anvils if you want the best.

Weight, lbs.	170 to 200	120 to 165	80 to 119	70 to 79	60 to 69	50 to 59
Per pound..	8 1/2 c	9 1/2 c	10 c	10 1/2 c	11 c	12 1/2 c

## STEEL FACE CAST ANVILS TEMPERED STEEL FACE

183B4592

The body of this anvil is made from superior new pig iron. (No scrap metal used.) The face is one solid piece of tool steel, welded to the body by a patent process, and will not come loose. Accurately ground and tempered. Fitted with hole for anvil tools. The end of the horn is made entirely of tough, untempered steel and the top is covered with steel. An excellent, well-shaped anvil. (Give weight.)  
Wt. lbs. 20 30 40 50 60 80 100  
2 lbs. Price.....85c



## BRAZIRON OUTFIT FOR BRAZING CAST IRON

83B4797—The best known and most reliable compound for brazing cast iron. Also excellent for brazing aluminum. Outfit consists of 1 jar Braziron, 1 box flux, 1 roll best brass spelter, and full directions. Of great value in making many quick repairs on various machinery about the farm and home. Average weight, 2 lbs. Price.....85c



## BRAZIRON

For Brazing Cast Iron

83B4796—Every farmer and mechanic knows the value of a reliable, convenient compound for brazing together broken iron castings about the shop, farm, or home. Braziron can be depended upon when used in connection with a good spelter and flux. Weight, 1 lb. With directions. Price.....52c

## LAKESIDE WELDING COMPOUND

83B4795—Lakeside welding compound is a product of our laboratories and is one of the best made. It sticks at a low heat and makes a clean, perfect weld on iron or steel. There is no sloughing or boiling off and no scale is formed. Will give satisfaction. In handy 5-lb. cans. Our price, per can.....40c



## STANDARD FORGED STEEL ANVIL TOOLS AND HAMMERS

### SQUARE FLATERS Oil Finish (Give Size)

Size Face In.	Approx. Weight Lbs.	Each
2 1/4	2 1/4	27c
3 1/4	3 1/4	30c
4 1/4	4 1/4	42c
5 1/4	5 1/4	55c

### STEEL HARDIE (Give size)

For hole, in.	Approx. Weight Lbs.	Each
1/8	1/8 lb.	6c
1/4	1/4 lb.	9c
3/8	3/8 lb.	12c
1/2	1/2 lb.	15c
3/4	3/4 lb.	18c

### TOP FULLERS (Give size)

Size	Approx. Weight Lbs.	Each
1/4	1/4	24c
3/8	3/8	27c
1/2	1/2	28c
5/8	5/8	30c
3/4	3/4	34c
7/8	7/8	35c
1	1	36c

### MAYDOLE FARRIERS' HAMMER

83B4712—Genuine David Maydole (No. 251), Forged steel Adze-eye. Polished. With various hickory handle. Weight of head, 12 oz.; with handle, 19 oz. Each.....53c

### DRIVING HAMMER

83B4713—Heller Bros.' Driving Hammer. Solid polished steel, with hickory handle. (Give size.)  
8 oz.; with handle, 12 oz. Each.....67c  
Wt. of head, 10 oz.; with handle, 14 oz. Each.....58c

### COMMON COLD CHISELS

83B4720—Standard Cold Chisels, forged from octagon steel. Oil finish sharpened. 1/2 in. Size is diameter of body. Wt., 1/4 lb. Each.....5c  
3/4 in. Wt., 3/4 lb. Each.....10c  
1 in. Wt., 1 1/4 lbs. Each.....18c

### SLEDGE HANDLES

83B2541—Selected, young growth hickory. Length, 36 in. Weight, each, 1 1/2 lbs. Each.....\$0.14  
Per dozen.....1.50

### BOTTOM FULLERS

Size	Approx. Weight Lbs.	Each
1/4	1/4	25c
3/8	3/8	28c
1/2	1/2	29c
5/8	5/8	30c
3/4	3/4	37c
7/8	7/8	40c

### TOP SWAGES

Size in.	Weight Lbs.	Each
1/4	1/4	18c
3/8	3/8	19c
1/2	1/2	27c
5/8	5/8	32c
3/4	3/4	33c
7/8	7/8	34c

### BOTTOM SWAGES

Size	Approx. Weight Lbs.	Each
1/4	1/4	25c
3/8	3/8	26c
1/2	1/2	27c
5/8	5/8	28c
3/4	3/4	29c
7/8	7/8	32c
1	1	35c

### DRIVING HAMMER

83B4714—Heller Bros.' Driving Hammer, solid steel. Natural finish. Tempered and evenly balanced; with hickory handle. (Give size.)  
Wt. of head, 12 oz.; with handle, 1 lb. Each.....74c  
Wt. of head, 14 oz.; with handle, 1 1/4 lb. Each.....76c

### FITTING HAMMER

83B4715—Heller Bros.' Fitting Hammer. Forged steel. Polished, with hickory handle. (Give size.)  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.20

### POLISHED COLD CHISELS

83B4725—High Grade Cold Chisels. Lakeside brand. Best quality octagon tool steel, finely tempered and full polished. Ground sharp. Size is diameter of body. (Give size.)  
Size, in. 1/2 3/4 1  
Wt., each, 3 oz. 5 oz. 12 oz. 25 oz.  
Each.....10c 12c 20c 30c

### SHARP-EN-EZY COLD CHISELS

83B4726—A new cold chisel, drop forged steel, ground sharp and tempered. Has a narrow cutting bit and the fluted handle affords an easy grip. Size is diameter of body.  
Size, in. 1/2 3/4 1  
Wt., each, 3 oz. 6 oz. 8 oz. 14 oz.  
Each.....15c 18c 24c 45c

### SHARP-EN-EZY CAPE CHISELS

83B4728—Drop forged tempered steel with fluted handle. Affording an easy grip. Size is diameter of body. Length, 6 1/2 in. (Give size.)  
1/2 in. Wt., 4 oz. Each.....15c  
3/4 in. Wt., 6 oz. Each.....18c

### SHARP-EN-EZY HAND PUNCHES

83B4730—Drop forged, steel tempered all over, with fluted handle, affording a secure grip. Round points, with long taper; ground true and polished. Length, 6 in.  
3/16 in. point. Wt., 3 oz. Each.....15c  
1/4 in. point. Wt., 7 oz. Each.....18c

## BLACKSMITH SLEDGES



### FORGED STEEL

83B4630—Solid forged steel Sledges, oil finish. Single face with cross pein, face and pein ground true and polished. Evenly balanced and carefully tempered. Handles not included. (Give size.)  
Weight, about, lbs. 8 10 12 14 16  
Each.....60c 75c 90c \$1.05 \$1.20

### HICKORY SLEDGE HANDLES

83B4631—Hickory Sledge Handles. Length, 36 in. Turned smooth. Weight, about 1 1/4 lbs. Each.....15c

### HORSESHOE TURNING SLEDGE

83B4622—Turning Sledge, octagon pattern. Solid cast steel, oil finish with tempered, polished faces. (Give size.)  
Weight, about 8 lbs. Each \$0.80  
Weight, about 10 lbs. Each 1.00

### HORSESHOE TURNING SLEDGE

83B4624—Western pattern. Solid cast steel, oil finish with tempered ground and polished faces. (Give size.)  
Weight, 8 lbs. Each.....60c  
Weight, 10 lbs. Each.....75c

### BLACKSMITHS' HAND HAMMERS

83B4711—Lakeside Blacksmiths' Hand Hammers. Solid forged, from superior steel, full polished. Carefully balanced, tempered and tested. Can be redressed and tempered when face becomes worn. A high grade tool that will give excellent service. Indispensable for farm and shop use. With second growth hickory handle. (Give size.)  
Size 1. Wt. of head, about 2 lbs. Wt. with handle, 2 1/4 lbs. Each.....45c  
Size 2. Wt. of head, about 2 1/2 lbs. Wt. with handle, 3 lbs. Each.....50c  
Size 3. Wt. of head, about 3 lbs. Wt. with handle, 3 1/2 lbs. Each.....54c  
Size 4. Wt. of head, about 3 1/2 lbs. Wt. with handle, 4 lbs. Each.....57c

### SHARPENING HAMMER

83B4716—Heller Bros.' Sharpening Hammer. Forged steel. Full polished head. With hickory handle. Wt. of head, 1 1/2 lbs.; with handle, 2 lbs. Each.....\$1.40  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.42

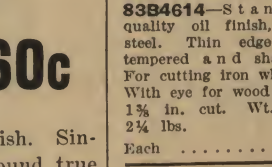
### SHARPENING HAMMER

83B4717—Champion Tool Co. Electric sharpening hammer; double beveled corrugated pein, full polished. With hickory handle. A high class tool that will give excellent service. Retail value, \$1.75.  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.24  
Wt. of head, 2 1/2 lbs.; with handle, 3 lbs. Each.....\$1.25

### ROUNDING HAMMER

83B4718—Heller Bros.' Rounding Hammer. Solid steel, full polished head and handle, rounded face. With hickory handle. Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.44

## BLACKSMITH SLEDGES



### FORGED STEEL

83B4630—Solid forged steel Sledges, oil finish. Single face with cross pein, face and pein ground true and polished. Evenly balanced and carefully tempered. Handles not included. (Give size.)  
Weight, about, lbs. 8 10 12 14 16  
Each.....60c 75c 90c \$1.05 \$1.20

### HICKORY SLEDGE HANDLES

83B4631—Hickory Sledge Handles. Length, 36 in. Turned smooth. Weight, about 1 1/4 lbs. Each.....15c

### HORSESHOE TURNING SLEDGE

83B4622—Turning Sledge, octagon pattern. Solid cast steel, oil finish with tempered, polished faces. (Give size.)  
Weight, about 8 lbs. Each \$0.80  
Weight, about 10 lbs. Each 1.00

### HORSESHOE TURNING SLEDGE

83B4624—Western pattern. Solid cast steel, oil finish with tempered ground and polished faces. (Give size.)  
Weight, 8 lbs. Each.....60c  
Weight, 10 lbs. Each.....75c

### BLACKSMITHS' HAND HAMMERS

83B4711—Lakeside Blacksmiths' Hand Hammers. Solid forged, from superior steel, full polished. Carefully balanced, tempered and tested. Can be redressed and tempered when face becomes worn. A high grade tool that will give excellent service. Indispensable for farm and shop use. With second growth hickory handle. (Give size.)  
Size 1. Wt. of head, about 2 lbs. Wt. with handle, 2 1/4 lbs. Each.....45c  
Size 2. Wt. of head, about 2 1/2 lbs. Wt. with handle, 3 lbs. Each.....50c  
Size 3. Wt. of head, about 3 lbs. Wt. with handle, 3 1/2 lbs. Each.....54c  
Size 4. Wt. of head, about 3 1/2 lbs. Wt. with handle, 4 lbs. Each.....57c

### SHARPENING HAMMER

83B4716—Heller Bros.' Sharpening Hammer. Forged steel. Full polished head. With hickory handle. Wt. of head, 1 1/2 lbs.; with handle, 2 lbs. Each.....\$1.40  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.42

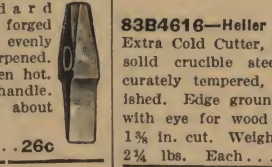
### SHARPENING HAMMER

83B4717—Champion Tool Co. Electric sharpening hammer; double beveled corrugated pein, full polished. With hickory handle. A high class tool that will give excellent service. Retail value, \$1.75.  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.24  
Wt. of head, 2 1/2 lbs.; with handle, 3 lbs. Each.....\$1.25

### ROUNDING HAMMER

83B4718—Heller Bros.' Rounding Hammer. Solid steel, full polished head and handle, rounded face. With hickory handle. Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.44

## BLACKSMITH SLEDGES



### FORGED STEEL

83B4630—Solid forged steel Sledges, oil finish. Single face with cross pein, face and pein ground true and polished. Evenly balanced and carefully tempered. Handles not included. (Give size.)  
Weight, about, lbs. 8 10 12 14 16  
Each.....60c 75c 90c \$1.05 \$1.20

### HICKORY SLEDGE HANDLES

83B4631—Hickory Sledge Handles. Length, 36 in. Turned smooth. Weight, about 1 1/4 lbs. Each.....15c

### HORSESHOE TURNING SLEDGE

83B4622—Turning Sledge, octagon pattern. Solid cast steel, oil finish with tempered, polished faces. (Give size.)  
Weight, about 8 lbs. Each \$0.80  
Weight, about 10 lbs. Each 1.00

### HORSESHOE TURNING SLEDGE

83B4624—Western pattern. Solid cast steel, oil finish with tempered ground and polished faces. (Give size.)  
Weight, 8 lbs. Each.....60c  
Weight, 10 lbs. Each.....75c

### BLACKSMITHS' HAND HAMMERS

83B4711—Lakeside Blacksmiths' Hand Hammers. Solid forged, from superior steel, full polished. Carefully balanced, tempered and tested. Can be redressed and tempered when face becomes worn. A high grade tool that will give excellent service. Indispensable for farm and shop use. With second growth hickory handle. (Give size.)  
Size 1. Wt. of head, about 2 lbs. Wt. with handle, 2 1/4 lbs. Each.....45c  
Size 2. Wt. of head, about 2 1/2 lbs. Wt. with handle, 3 lbs. Each.....50c  
Size 3. Wt. of head, about 3 lbs. Wt. with handle, 3 1/2 lbs. Each.....54c  
Size 4. Wt. of head, about 3 1/2 lbs. Wt. with handle, 4 lbs. Each.....57c

### SHARPENING HAMMER

83B4716—Heller Bros.' Sharpening Hammer. Forged steel. Full polished head. With hickory handle. Wt. of head, 1 1/2 lbs.; with handle, 2 lbs. Each.....\$1.40  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.42

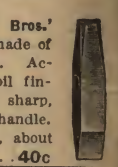
### SHARPENING HAMMER

83B4717—Champion Tool Co. Electric sharpening hammer; double beveled corrugated pein, full polished. With hickory handle. A high class tool that will give excellent service. Retail value, \$1.75.  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.24  
Wt. of head, 2 1/2 lbs.; with handle, 3 lbs. Each.....\$1.25

### ROUNDING HAMMER

83B4718—Heller Bros.' Rounding Hammer. Solid steel, full polished head and handle, rounded face. With hickory handle. Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.44

## BLACKSMITH SLEDGES



### FORGED STEEL

83B4630—Solid forged steel Sledges, oil finish. Single face with cross pein, face and pein ground true and polished. Evenly balanced and carefully tempered. Handles not included. (Give size.)  
Weight, about, lbs. 8 10 12 14 16  
Each.....60c 75c 90c \$1.05 \$1.20

### HICKORY SLEDGE HANDLES

83B4631—Hickory Sledge Handles. Length, 36 in. Turned smooth. Weight, about 1 1/4 lbs. Each.....15c

### HORSESHOE TURNING SLEDGE

83B4622—Turning Sledge, octagon pattern. Solid cast steel, oil finish with tempered, polished faces. (Give size.)  
Weight, about 8 lbs. Each \$0.80  
Weight, about 10 lbs. Each 1.00

### HORSESHOE TURNING SLEDGE

83B4624—Western pattern. Solid cast steel, oil finish with tempered ground and polished faces. (Give size.)  
Weight, 8 lbs. Each.....60c  
Weight, 10 lbs. Each.....75c

### BLACKSMITHS' HAND HAMMERS

83B4711—Lakeside Blacksmiths' Hand Hammers. Solid forged, from superior steel, full polished. Carefully balanced, tempered and tested. Can be redressed and tempered when face becomes worn. A high grade tool that will give excellent service. Indispensable for farm and shop use. With second growth hickory handle. (Give size.)  
Size 1. Wt. of head, about 2 lbs. Wt. with handle, 2 1/4 lbs. Each.....45c  
Size 2. Wt. of head, about 2 1/2 lbs. Wt. with handle, 3 lbs. Each.....50c  
Size 3. Wt. of head, about 3 lbs. Wt. with handle, 3 1/2 lbs. Each.....54c  
Size 4. Wt. of head, about 3 1/2 lbs. Wt. with handle, 4 lbs. Each.....57c

### SHARPENING HAMMER

83B4716—Heller Bros.' Sharpening Hammer. Forged steel. Full polished head. With hickory handle. Wt. of head, 1 1/2 lbs.; with handle, 2 lbs. Each.....\$1.40  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.42

### SHARPENING HAMMER

83B4717—Champion Tool Co. Electric sharpening hammer; double beveled corrugated pein, full polished. With hickory handle. A high class tool that will give excellent service. Retail value, \$1.75.  
Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.24  
Wt. of head, 2 1/2 lbs.; with handle, 3 lbs. Each.....\$1.25

### ROUNDING HAMMER

83B4718—Heller Bros.' Rounding Hammer. Solid steel, full polished head and handle, rounded face. With hickory handle. Wt. of head, 2 1/2 lbs.; with handle, 2 1/2 lbs. Each.....\$1.44



# SHOE YOUR OWN HORSES—USE EASY-FIT SHOES

## EASY-FIT SUMMER HORSE SHOES

17c TO 42c PAIR

NO HEATING—NO WELDING

Our Easy-Fit Prepared Horse Shoes are finished and shaped ready to apply. They are Tread, Heel and Clipped and the shape is so perfect it is seldom necessary to change them.  
Made of a special analysis iron of a texture that will allow re-shaping without heating.  
This is a great advantage to the horse owner. No expert skill required. Saves you time and money. Many thousands now in daily use. We know they will please you.

### SUMMER FRONT SHOES

83B4751—Easy-Fit Front Shoes in pairs.

Size	1	2	3	4	5	6
Outside measure, in.	5 1/2 x 4 1/2	5 1/2 x 5	5 1/2 x 5 1/2	6 1/2 x 5 1/2	6 1/2 x 5 1/2	6 1/2 x 6
Wt., per pair, about lbs.	2 1/2	3	3 1/2	3 1/2	4 1/2	4 1/2
Price, per pair	18c	22c	27c	30c	36c	42c

### SUMMER HIND SHOES

83B4752—Easy-Fit Hind Shoes in pairs.

Size	1	2	3	4	5	6
Outside measure, in.	5 1/2 x 4 1/2	5 1/2 x 4 1/2	6 x 5	6 1/2 x 5 1/2	6 1/2 x 5 1/2	6 1/2 x 5 1/2
Wt., per pair, about lbs.	2 1/2	3	3 1/2	3 1/2	4 1/2	4 1/2
Price, per pair	17c	21c	26c	29c	36c	41c

## EASY-FIT WINTER HORSE SHOES

13c TO 38c PAIR

TAPPED READY FOR SCREW CALKS

Easy-Fit Prepared Winter Shoes are finished and shaped ready to wear. They are drilled and tapped ready for screw calks and can be re-shaped cold, without destroying the threads. This shoe when fitted with our Steel Center Screw Calks makes a perfect winter shoe and gives your horse a safe footing, even on the most icy roads.  
Prices do not include the Steel Center Calks.

### WINTER FRONT SHOES

83B4753—Easy-Fit Front Shoes in pairs.

Size	1	2	3	4	5	6
Outside measure, in.	5 1/2 x 4 1/2	5 1/2 x 4 1/2	5 1/2 x 4 1/2	6 1/2 x 5 1/2	6 1/2 x 5 1/2	7 x 6
Wt., per pair, about lbs.	1 1/2	1 1/2	1 1/2	2 1/2	2 1/2	3 1/2
Tapped for Calk, in.	1 1/2	1 1/2	1 1/2	2 1/2	2 1/2	3 1/2
Price, per pair	13c	17c	20c	22c	33c	38c

### WINTER HIND SHOES

83B4754—Easy-Fit Hind Shoes in pairs.

Size	1	2	3	4	5	6
Outside measure, in.	5 1/2 x 4 1/2	5 1/2 x 4 1/2	5 1/2 x 4 1/2	6 1/2 x 5 1/2	6 1/2 x 5 1/2	7 x 6
Wt., per pair, about lbs.	1 1/2	1 1/2	1 1/2	2 1/2	2 1/2	3 1/2
Tapped for Calk, in.	1 1/2	1 1/2	1 1/2	2 1/2	2 1/2	3 1/2
Price, per pair	13c	17c	20c	25c	32c	38c

## STANDARD GRADE IRON HORSE SHOES

15c SET \$3.75 KEG

Extra light weight Iron Horse Shoes. Best quality. Will work at any heat, from a cherry red to white, or cold if necessary. The shape is in correct lines, and they can be fitted with the least possible labor. The creasing is accurate, and the punching is clear through and at a proper angle for the nails. Perfect in quality, workmanship and finish.

### EXTRA LIGHT HORSE SHOES

83B4755—In sets of four, two front and two hind shoes.

Size 1 2 3 4 5 6

Wt. per set, about, lbs. 3 3/4 4 1/2 5 1/2 6 1/2 7 1/2 8 1/2

Price, per set 15c 17c 21c 24c 27c 35c

83B4756—In kegs of 100 pounds. All Front Shoes.

Size 1 2 3 4 5 6

Per keg \$3.75 \$3.75 \$3.75 \$3.75 \$3.75 \$3.75

83B4757—In kegs of 100 pounds. All Hind Shoes.

Size 1 2 3 4 5 6

Per keg \$3.75 \$3.75 \$3.75 \$3.75 \$3.75 \$3.75

83B4758—In kegs of 100 pounds. Both Front and Hind in same Keg.

Size 1 2 3 4 5 6

Per keg \$3.75 \$3.75 \$3.75 \$3.75 \$3.75 \$3.75

83B4759—In kegs of 100 pounds. Assorted sizes. No. 2 front and hind, and No. 3 front and hind in same keg. Per Keg \$3.90

83B4761—In kegs of 100 pounds. Assorted sizes. No. 3 front and hind, and No. 4 front and hind in same keg. Per Keg \$3.90

## IRON SNOW OR ROADSTER HORSE SHOES

REGULAR STANDARD GRADE SNOW AND ROADSTER SHOES

Best quality, correct shape, and carefully made. Will work at any heat from a cherry red to a white heat, or cold if necessary. Accurately creased and punched clear through at a proper angle for the nails.  
Perfect in quality, workmanship and finish.

### REGULAR STANDARD SNOW SHOES

83B4763—In sets of four, two front and two hind shoes.

Size 1 2 3 4 5 6

Wt., per set, about, lbs. 2 1/2 3 3 1/2 4 1/2 5 1/2

Price, per set 14c 16c 17c 22c 27c 30c

83B4764—In kegs of 100 pounds. All Front Shoes.

Size 1 2 3 4 5 6

Per keg \$4.00 \$3.75 \$3.75 \$3.75 \$3.75 \$3.75

83B4768—In kegs of 100 pounds. All Hind Shoes.

Size 1 2 3 4 5 6

Per keg \$4.00 \$3.75 \$3.75 \$3.75 \$3.75 \$3.75

83B4769—In kegs of 100 pounds. Both Front and Hind in same Keg.

Size 1 2 3 4 5 6

Per keg \$4.00 \$3.75 \$3.75 \$3.75 \$3.75 \$3.75

83B4772—In kegs of 100 pounds. Assorted sizes. No. 2 front and hind, and No. 3 front and hind in same keg. Per Keg \$3.90

83B4773—In kegs of 100 pounds. Assorted sizes. No. 2 front and hind, and No. 3 front and hind in same keg. Per Keg \$3.90

## HORSESHOE NAILS

### LAKESIDE HORSE NAILS

13c POUND

83B4778—Lakeside Extra Quality, forged hot of best quality stock from the end of the rod on the same principle that a nail is made by hand. Every nail uniform in size. Correctly proportioned and tempered right. A fine, well finished, high grade nail. Country head, in 5-lb. and 25-lb. boxes. We will sell any quantity. (Give size.)

Size, No. 5 6 7 8 9

Length in. 2 2 1/2 2 3/4 2 1/2 2 3/4

Per pound, any size. \$3.00

Per box, 25 lbs., any one size \$3.00

### ECLIPSE HORSE NAILS

83B4779—Eclipse Horse Nails are hot forged from good quality of stock and perfect in material, shape and finish. (Country head.) A nail that will give good service. Will clinch without breaking. Sizes, 5, 6, 7, 8, 9. Put up in 5-lb. paper boxes and 25 lb. wood boxes. We can supply any quantity. Per pound (give size) .9c

Per box, 25 lbs., any one size given above (give size) \$2.15

## STEEL CENTER SCREW CALKS

STEEL CENTER SCREW CALKS. 75c A BOX

83B4788—Best quality Screw Calks. Can be used on any shoe. Will give perfect satisfaction. Made with a hard steel center, always sharp, and a square shank, so they can be fastened or removed with an ordinary wrench. In boxes of 50 calks. We do not sell less than a full box. (Give size.)

Size	Weight, per box, about	Per box (50)
3/8 in.	1 1/4 lbs.	75c
7/16 in.	2 1/2 lbs.	75c
1/2 in.	3 1/2 lbs.	75c
5/8 in.	4 1/2 lbs.	75c

### TAPS FOR SCREW CALKS

83B4789—Hand Taps for screw calks, with square head for regular tap wrench. (Give size.)

Size, inches. 3/8 1/2 5/8 3/4

Each 18c 25c 28c 33c

### DRILLS FOR SCREW CALKS

85B4786—Twist Drills for screw calks with 1/2-inch round shank for blacksmith post drills. (Give size.)

Size Drill, inch. 3/8 1/2 5/8 3/4 1 1/2

For Calks, inch. 3/8 1/2 5/8 3/4 1 1/2

Each 22c 25c 27c 29c 31c

## RUBBER PADS AND TIPS

(Showing Pad without Tip) (Pad with Tip Attached)

83B4777—Rubber Hoof Pads with iron half shoes to fit. Use on front hoofs to prevent farring and give a firm footing. Can be packed with oakum and tar, or the centers may be cut out. Correct in shape and easy to fit. We include with each pad a malleable iron tip to fit the front half of the hoof. This improved iron tip is shaped and punched, easily put on, and prevents slipping on smooth, icy or wet pavements. Note—Our prices are for two rubber pads and two iron tips.

Size Outside Dimensions Weight Pair, lbs. Price, Pair

2 3 5 x 5 1/2 1 1/2 \$0.75

3 4 5 1/2 x 5 1/2 1 1/2 .75

4 5 6 x 6 1/2 1 1/2 .95

5 6 6 1/2 x 7 1/2 2 1/2 1.15

## IRON MARSH SHOES

Malleable iron. Prevent the horse's foot from sinking in soft ground. Animal will soon become accustomed to them. Adjustable to different size shoes, and fastened with patent clip over the hoof which can be instantly detached.

83B4790—Size 1. Measures 8 1/2 x 10 1/2 in. and will fit shoes from No. 2 to No. 5. Weight each, 4 1/4 lbs.

Per set of four shoes, complete. \$3.10

83B4791—Size 2. Measures 11 1/2 x 9 1/2 in. and will fit shoes from No. 4 to No. 7. Weight each, 5 1/2 lbs.

Per set of four shoes, complete. \$3.35

## WELDING DIES

83B4798—For sharp calks, 0, 1, 2 and 3. Each. \$2c

83B4799—For sharp calks, 4, 5 and 6. Each. \$3c

## STEEL TOE CALKS

Extra quality. Bessemer steel. Give size and state if Blunt or Sharp calks are wanted.

### 83B4793—Blunt Toe Calks.

Size No. in lb. Width inches Per lb.

1 13 3/4 5c

2 8 3/4 5c

3 6 3/4 5c

4 4 3/4 5c

5 4 3/4 5c

Per 25-lb. box. (Give size) \$1.22

### 83B4794—Sharp Toe Calks.

Size No. in lb. Width inches Per lb.

1 11 1 1/2 6c

2 8 1 1/2 6c

3 5 1 1/2 6c

4 4 1 1/2 6c

5 4 1 1/2 6c

Per 25-lb. box. (Give size) \$1.45

## BLACKSMITHS' LEATHER APRONS

Correct shape, well made, full size, complete with leather strings. Made in two sizes. Weights, about 1 1/2 to 2 1/2 pounds.

83B4741—Heavy split leather apron, with bib. Size, 25x34 in. Each. \$1.80

83B4742—Mulekin Apron, with bib. Size, 25x34 in. Each. \$2.00

Extra Large Aprons.

83B4746—Heavy split leather apron, with bib. Size, 27 1/2 x 38 in. Each. \$2.10

83B4747—Mulekin apron, with bib. Size, 28x38 in. Each. \$2.25

## BLACKSMITHS' TONGS

83B4635—Straight lip. Forged steel; one piece. Length and weights are approximate. (Give size.)

Length, 20 in. Wt., about 2 1/2 lbs. Each. 25c

Length, 23 in. Wt., about 3 lbs. Each. 28c

## SWIVEL JAW TONGS

83B4638—For holding irregular shapes. Length, 16 in. Forged steel. Weight, about 2 1/2 lbs. Each. 70c

## BLACKSMITHS' BOLT TONGS

83B4642—Forged steel. (Give size.)

For Bolts Length about in. Wt. lbs. about

3/4 17 2 1/2 22c

1 18 3 3/4 24c

1 1/2 19 4 1/2 26c

2 20 5 1/2 32c

2 1/2 21 6 1/2 36c

3 22 7 1/2 42c

3 1/2 23 8 1/2 48c

4 24 9 1/2 54c

4 1/2 25 10 1/2 60c

5 26 11 1/2 66c

5 1/2 27 12 1/2 72c

6 28 13 1/2 78c

6 1/2 29 14 1/2 84c

7 30 15 1/2 90c

7 1/2 31 16 1/2 96c

8 32 17 1/2 102c

8 1/2 33 18 1/2 108c

9 34 19 1/2 114c

## HIGH GRADE BLACKSMITHS' AND FARRIERS' TOOLS

### CLINCH TONGS

83B4648—Clinch Tongues, made of fine crucible tool steel. Very useful in shoeing colts and nervous horses. Length, 14 in. Wt., about 1 1/2 lbs. Each. 95c

### BLACKSMITHS' PINCERS

83B4650—Forged steel, polished jaws, full weight and perfect. Excellent for mechanic or stable. (Give size.)

Length Weight, about Each

12 in. 1 1/2 lbs. 40c

14 in. 2 lbs. 44c

### FAVORITE PINCERS

83B4652—Extra Quality drop forged steel, polished head. With square jaw, to be used as a clinch block. Length, 14 in. Weight, about 3 lbs. Each. \$1.50

### FARRIERS' PINCERS

83B4654—Forged from the highest grade of crucible steel, carefully tempered and finished. One of the finest Farriers' Pincers made. Length, 14 in.; width of jaws, 1 1/2 in. Weight, 2 1/2 lbs. Each. \$1.20

### HOOF PARERS

83B4658—Extra quality, full polished forged steel. One of the most practical tools in the market for paring hoofs. (Give size.)

Length Weight Each

12 in. 1 1/2 lbs. \$0.90

14 in. 2 1/2 lbs. 1.10

### GENUINE HELLER BROS. HOOF PARERS

83B4660—Made of the highest grade crucible steel. Full polished. Length Weight Each

12 1/2 in. 1 1/2 lbs. \$1.18

14 1/2 in. 2 1/2 lbs. 1.42

### OUR PRIDE HOOF SHEAR

83B4664—Drop forged steel, full polished, with ball bearing joint, best tool steel knives, interchangeable. Have an easy shear cut, and can be grasped with one hand when open. Adjustable for wear. Length Weight Each

12 in. 1 1/2 lbs. \$2.25

14 in. 2 1/2 lbs. 2.50

83B4665—Extra knives. Wt., 7 oz.

For 12-in. Shear. Pair. 55c

For 14-in. Shear. Pair. 60c

For Horse Rasps see Index.

### HOOF OR CUTTING NIPPERS

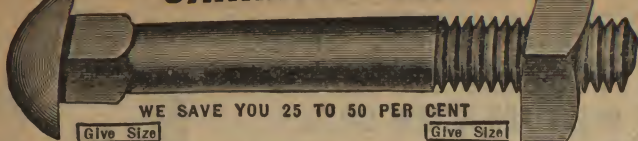
83B4675—Made of forged steel, finely polished. Jaws highly tempered and intended for cutting only. Should not be used for prying or twisting. (Give size.)

Length Weight, about Each

10 in. 1 lb. 65c



# CARRIAGE BOLTS



WE SAVE YOU 25 TO 50 PER CENT

Give Size

Give Size

Carriage Bolts, with oval heads and forged nuts; made of the best grade of mild steel, with clean, accurate threads and well formed head and nuts.

Notice—Ordinarily, prices on carriage and machine bolts are effective during the life of this Catalogue, but in the event of extraordinary market fluctuations, we reserve the right to revise our prices. Will always bill to you at the very lowest rates and save you money. (Give size.)

## CARRIAGE BOLTS

**83B4800**—Diameter, 1/2 in.  
4-inch bolt weighs approximately 6 lbs.  
per 100.

L'th In.	Per 100 Bolts	Per Pkg. of 25	L'th In.	Per 100 Bolts	Per Pkg. of 25
1 1/4	24c	6c	3 1/2	35c	11c
1 1/2	25c	7c	3 3/4	36c	12c
1 3/4	26c	7c	4	37c	12c
2	27c	8c	4 1/4	38c	12c
2 1/4	28c	8c	4 1/2	39c	13c
2 1/2	29c	9c	4 3/4	40c	13c
2 3/4	30c	9c	5	41c	14c
3	31c	10c	5 1/4	42c	14c
3 1/4	32c	10c	5 1/2	43c	15c
3 1/2	33c	11c	5 3/4	44c	15c
3 3/4	34c	11c	6	45c	16c
			6 1/4	46c	16c
			6 1/2	47c	17c
			6 3/4	48c	17c
			7	49c	18c

**83B4802**—Diameter, 5/16 in.  
6-inch bolt weighs approximately 22 lbs.  
per 100.

L'th In.	Per 100 Bolts	Per Pkg. of 25	L'th In.	Per 100 Bolts	Per Pkg. of 25
1 1/4	45c	13c	4 1/2	\$0.68	20c
1 1/2	46c	13c	4 3/4	.72	21c
1 3/4	47c	13c	5	.76	22c
2	48c	14c	5 1/4	.80	23c
2 1/4	49c	14c	5 1/2	.84	24c
2 1/2	50c	15c	5 3/4	.88	25c
2 3/4	51c	15c	6	.92	26c
3	52c	16c	6 1/4	.96	27c
3 1/4	53c	16c	6 1/2	1.00	28c
3 1/2	54c	17c	6 3/4	1.04	29c
3 3/4	55c	17c	7	1.08	30c
4	56c	18c	7 1/4	1.12	31c
4 1/4	57c	18c	7 1/2	1.16	32c
4 1/2	58c	19c	7 3/4	1.20	33c
4 3/4	59c	19c	8	1.24	34c
5	60c	20c	8 1/4	1.28	35c
5 1/4	61c	20c	8 1/2	1.32	36c
5 1/2	62c	21c	8 3/4	1.36	37c
5 3/4	63c	21c	9	1.40	38c
6	64c	22c	9 1/4	1.44	39c
6 1/4	65c	22c	9 1/2	1.48	40c
6 1/2	66c	23c	9 3/4	1.52	41c
6 3/4	67c	23c	10	1.56	42c

**83B4801**—Diameter, 5/16 in.  
5-in. bolt weighs approximately 13 lbs.  
per 100.

L'th In.	Per 100 Bolts	Per Pkg. of 25	L'th In.	Per 100 Bolts	Per Pkg. of 25
1 1/4	33c	9c	4 1/2	52c	15c
1 1/2	34c	9c	4 3/4	53c	15c
1 3/4	35c	10c	5	54c	16c
2	36c	10c	5 1/4	55c	16c
2 1/4	37c	11c	5 1/2	56c	17c
2 1/2	38c	11c	5 3/4	57c	17c
2 3/4	39c	12c	6	58c	18c
3	40c	12c	6 1/4	59c	18c
3 1/4	41c	13c	6 1/2	60c	19c
3 1/2	42c	13c	6 3/4	61c	19c
3 3/4	43c	14c	7	62c	20c
4	44c	14c	7 1/4	63c	20c
4 1/4	45c	15c	7 1/2	64c	21c
4 1/2	46c	15c	7 3/4	65c	21c
4 3/4	47c	16c	8	66c	22c
4 1/2	48c	16c	8 1/4	67c	22c

**83B4803**—Diameter, 1/2 in.  
8-inch bolt weighs approximately 52 lbs.  
per 100.

L'th In.	Per 100 Bolts	Per Pkg. of 25	L'th In.	Per 100 Bolts	Per Pkg. of 25
1 1/4	\$0.88	25c	7 1/2	\$1.65	44c
1 1/2	.90	25c	8	1.72	46c
1 3/4	.92	26c	8 1/4	1.80	48c
2	.98	27c	8 1/2	1.86	49c
2 1/4	1.03	28c	8 3/4	1.95	51c
2 1/2	1.08	29c	9	2.02	53c
2 3/4	1.13	30c	9 1/4	2.10	55c
3	1.18	31c	9 1/2	2.18	57c
3 1/4	1.23	32c	9 3/4	2.26	59c
3 1/2	1.27	33c	10	2.34	61c
3 3/4	1.32	34c	10 1/4	2.42	63c
4	1.36	35c	10 1/2	2.50	65c
4 1/4	1.41	36c	10 3/4	2.58	67c
4 1/2	1.45	37c	11	2.66	69c
4 3/4	1.50	38c	11 1/4	2.74	71c
5	1.54	39c	11 1/2	2.82	73c
			11 3/4	2.90	75c

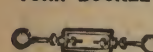
# HANDY BOLT ASSORTMENT



100 STEEL CARRIAGE BOLTS  
WITH NUTS  
A BIG BARGAIN FOR  
**47c**

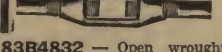
**83B4822**—A splendid, very useful assortment of 100 high grade Carriage Bolts. Diameters are 1/4, 5/16, 3/8 in. Lengths range from 1 1/2 to 4 in. Bolts are high grade, with clean, accurate threads, and well formed heads. A fine assortment of sizes that are in constant demand for use about the farm and home. Will be found a great convenience. A big value at our very low price. Weight, about 8 lbs. Price...**47c**

## LIGHT TURN BUCKLE



**83B4835**—Wrought steel Hook and Eye, diameter, 1/4 in., with wrought lock nuts. Cast iron swivel 1 1/2 x 3/4 in. Length open, 9 1/2 in. Closed, 7 1/2 in. Plain finish. Wt., 10 lb. Each...**\$0.10**  
Dozen...**1.10**

## HEAVY TURN BUCKLES



**83B4832**—Open wrought steel Turn Buckles. Complete with short right and left hand stub ends, threaded and ready for welding to longer rods. Give size.

Diam. Rod	Weight Lbs.	Price
1/2 in.	1 1/2	20c
5/8 in.	2	23c
3/4 in.	3	25c
7/8 in.	4	32c
1 in.	5	38c
1 1/8 in.	6	44c

## HOOK AND EYE TURNBUCKLES (Galvanized)



**83B4834**—Made with wrought steel Hook and Eye. Galvanized to prevent rust. Average weights, 1/2 to 3/4 lbs. Give size.

Diam. Threads Inches	Length Closed Inches	Each
3/4	8 1/2	26c
7/8	9 1/2	30c
1	10 1/2	32c
1 1/8	11 1/2	36c
1 1/4	12 1/2	42c
1 1/2	13 1/2	48c
1 3/4	14 1/2	54c
2	16	64c

# Stove Bolts

## ROUND HEAD STOVE BOLTS



Weights, per 100, 1 1/2 to 5 lbs.

83B4816 — Round Head, Diameter, 3/16 in. (Give size.)			83B4817 — Round Head, Diameter, 1/4 in. (Give size.)		
L'th In.	Per 100	Per Dozen	L'th In.	Per 100	Per Dozen
1 1/4	14c	3c	1 1/4	18c	3c
1 1/2	14c	3c	1 1/2	18c	3c
1 3/4	15c	3c	1 3/4	19c	3c
2	16c	3c	2	20c	3c
2 1/4	17c	3c	2 1/4	21c	3c
2 1/2	17c	3c	2 1/2	23c	4c
2 3/4	18c	3c	2 3/4	24c	4c
3	19c	4c	3	26c	4c
3 1/4	20c	4c	3 1/4	27c	5c
3 1/2	23c	4c	3 1/2	30c	5c

## FLAT HEAD STOVE BOLTS



Weights, per 100, 1 to 5 lbs.

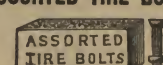
83B4818 — Flat Head, Diameter, 3/16 in.			83B4819 — Flat Head, Diameter, 1/4 in.		
L'th In.	Per 100	Per Dozen	L'th In.	Per 100	Per Dozen
1 1/4	14c	3c	1 1/4	18c	3c
1 1/2	14c	3c	1 1/2	18c	3c
1 3/4	15c	3c	1 3/4	19c	3c
2	16c	3c	2	20c	3c
2 1/4	17c	3c	2 1/4	21c	3c
2 1/2	17c	3c	2 1/2	23c	4c
2 3/4	18c	3c	2 3/4	24c	4c
3	19c	4c	3	26c	4c
3 1/4	20c	4c	3 1/4	27c	5c
3 1/2	23c	4c	3 1/2	30c	5c

## ASSORTED STOVE BOLTS

**100 for 22c**  
**USUAL 35c VALUE**

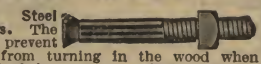
**83B4820**—Assorted package of steel Stove Bolts, containing the following bolts with nuts: Flat Heads—10 each 3/16, 3/8, and 1 in.; Round Heads—10 each 3/16, 3/8, 1/2, and 5/8 in.; 10 each 1/4, 3/8, and 1 in. A total of 100 bolts. Clean threads. A very useful assortment of bolts for the household as well as for the small shop. Weight, 1 lb. Per package...**22c**

## ASSORTED TIRE BOLTS



**83B4838**—A handy assortment of 100 steel tire bolts with nuts. Diameters, 3/16 and 1/4 in. Lengths, 1 1/2 to 3 in. A necessity to the vehicle owner. The grooves prevent bolt from turning in the wood. Weight, 1 lb. Per package...**23c**

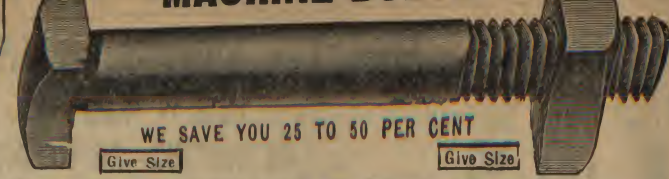
## FLUTED TIRE BOLTS



Fluted Tire Bolts. The grooves prevent the bolt from turning in the wood when the nut is being put on, which is a decided improvement over the plain round bolt. Average weight, per 100, 1 1/2 to 4 1/2 lbs. Give size.

83B4836 — Diameter, 3/16 in.			83B4837 — Diameter, 1/4 in.		
Length Inches	Per 100	Per Dozen	Length Inches	Per 100	Per Dozen
1 1/2	13c	3c	1 1/2	21c	3c
1 3/4	14c	3c	1 3/4	22c	3c
2	15c	3c	2	23c	3c
2 1/4	17c	4c	2 1/4	24c	4c
2 1/2	18c	4c	2 1/2	26c	4c
2 3/4	19c	4c	2 3/4	27c	4c

# MACHINE BOLTS



WE SAVE YOU 25 TO 50 PER CENT

Give Size

Give Size

Machine Bolts, with square heads and nuts, finished points. Machine bolts do not have a square shoulder like carriage bolts, but are round all the way up to the head. All made with clean threads, perfectly formed heads and nuts.

**83B4806**—Diameter, 1/4 in.  
4-inch bolt weighs approximately 6 1/2 lbs. per 100.

L'th In.	Per 100 Bolts	Per Pkg. of 25	L'th In.	Per 100 Bolts	Per Pkg. of 25
1 1/4	39c	11c	4 1/2	60c	16c
1 1/2	41c	12c	4 3/4	62c	16c
1 3/4	42c	12c	5	65c	17c
2	43c	13c	5 1/4	68c	17c
2 1/4	46c	14c	5 1/2	70c	20c
2 1/2	48c	14c	5 3/4	72c	21c
2 3/4	49c	15c			

**83B4808**—Diameter, 5/16 in.  
5-inch bolt weighs approximately 19 1/2 lbs. per 100.

L'th In.	Per 100 Bolts	Per Pkg. of 25	L'th In.	Per 100 Bolts	Per Pkg. of 25
1 1/4	54c	16c	5 1/2	\$0.98	27c
1 1/2	59c	17c	5 3/4	1.00	28c
1 3/4	61c	18c	6	1.05	30c
2	63c	18c	6 1/4	1.08	30c
2 1/4	65c	19c	6 1/2	1.15	32c
2 1/2	68c	20c	6 3/4	1.20	33c
2 3/4	70c	20c	7	1.22	34c
3	72c	21c			

**83B4807**—Diameter, 5/16 in.  
5-inch bolt weighs approximately 13 lbs. per 100.

L'th In.	Per 100 Bolts	Per Pkg. of 25	L'th In.	Per 100 Bolts	Per Pkg. of 25
1 1/4	45c	13c	4 1/2	75c	21c
1 1/2	48c	14c	4 3/4	78c	22c
1 3/4	50c	15c	5	81c	23c
2	52c	16c	5 1/4	86c	25c
2 1/4	55c	17c	5 1/2	92c	25c
2 1/2	57c	17c			

**83B4809**—Diameter, 1/2 in.  
8-inch bolt weighs approximately 53 lbs. per 100.

L'th In.	Per 100 Bolts	Per Pkg. of 25	L'th In.	Per 100 Bolts	Per Pkg. of 25
1 1/4	\$0.98	28c	6 1/2	\$1.68	45c
1 1/2	1.05	29c	6 3/4	1.75	47c
1 3/4	1.10	31c	7	1.88	50c
2	1.22	34c	7 1/4	2.16	57c
2 1/4	1.33	37c	7 1/2	2.30	60c
2 1/2	1.40	37c	7 3/4	2.45	63c
2 3/4	1.55	42c	8	2.75	72c
3	1.62	43c	8 1/4	3.00	78c
			8 1/2	3.60	85c
			8 3/4	3.60	92c



# STANDARD SCREW PLATES FOR MECHANICS AND MOTORISTS

## FULL MOUNTED EASY PLATES



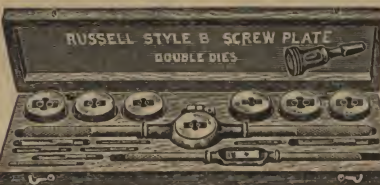
The Full Mounted Easy Screw Plates have a separate stock with each die, and we include with each set a patent adjustable tap wrench. Dies and taps of special tool steel.

**83B4930—Full Mounted Easy Screw Plate, No. 51.** Cutting 5 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12 threads. Complete in handsome wood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 23 pounds. **\$6.95**

**83B4931—Full Mounted, Easy Screw Plate, No. 55.** Cutting 7 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10 threads. Complete in handsome wood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 28½ pounds. **\$9.95**

**83B4932—Full Mounted Easy Screw Plate, No. 57.** Cutting 9 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8 threads. Complete in handsome wood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 39½ lbs. **\$16.25**

## RUSSELL SCREW PLATES



Two-piece dies, held rigidly in a solid collet. Adjustable by means of two set screws. Perfect threads with one cut. Zero marks on top of die and collet for perfect adjustment of each half. With taper taps, dies and 2½ in. collets. V-threads,  $\frac{1}{2}$  in. over size. With die stock, adjustable tap wrench, and bit brace holder. Dies and taps of special tool steel. In handsome wood case.

**83B4916—Cutting 5 sizes:**  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12 threads. Wt., about 12 lbs. **\$7.40**

**83B4917—Cutting 5 sizes:**  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12 threads. Wt., about 14 lbs. **\$8.35**

**83B4918—Cutting 7 sizes:**  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10 threads. Wt., about 16 lbs. **\$9.85**

**83B4919—Cutting 9 sizes:**  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8 threads. Wt., about 20 lbs. **\$15.70**

## ELECTRIC SCREW PLATES



**83B4940—Electric Screw Plate, No. 2.** Cutting 5 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12 threads. Has two stocks, lengths, 18½ in. and 22½ in. Complete in handsome hardwood box, with taper taps. The dies and taps of special tool steel cut  $\frac{1}{2}$  in. over size. Standard V thread. Wt., 21½ lbs. **\$8.95**

Shows Construction of Electric Die

**83B4942—Electric Screw Plate, No. 5.** Cutting 7 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10 threads. Has two stocks, lengths, 18½ in. and 23½ in. Complete in handsome hardwood box, with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, 24½ lbs. **\$10.60**

**83B4944—Electric Screw Plate, No. 9.** Cutting 10 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6 threads. Has two stocks, lengths, 19 in. and 30 in. Complete in handsome hardwood box with taper taps. The dies Weight, about 30 lbs. **\$18.70**

## GREEN RIVER SCREW PLATES



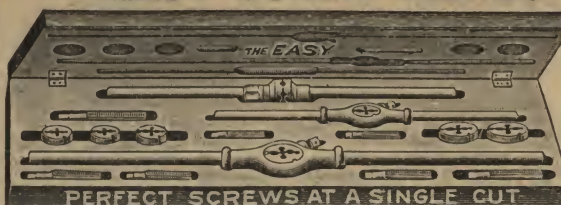
Green River Screw Plates have round adjustable dies, with case hardened guides, to which the die is fastened by means of two adjusting screws. Are very popular with many mechanics.

**83B4948—Green River Screw Plate, No. 150.** Cutting 5 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12 threads. Complete in handsome hardwood box with machine taps and a tap wrench. Cutting exact sizes. Standard V threads. Dies and taps of special tool steel. Weight, about 2½ lbs. **\$3.95**

**83B4950—Green River Screw Plate, No. 1102.** Cutting 6 sizes as follows:  $\frac{1}{4}$ -24,  $\frac{5}{16}$ -20,  $\frac{3}{8}$ -18,  $\frac{1}{2}$ -16,  $\frac{5}{8}$ -14,  $\frac{3}{4}$ -12 threads. Has one stock length, 18 in., and one adjustable tap wrench. Complete in handsome box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 12½ lbs. **\$8.15**

**83B4951—Green River Screw Plate, No. 1104.** Cutting 7 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10 threads. Has one stock, length, 22 in., and one adjustable tap wrench. Complete in handsome box, with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 16 lbs. **\$9.50**

## EASY SCREW PLATES \$6.50



**PERFECT SCREWS AT A SINGLE CUT**

**83B4921—Easy Screw Plate, No. 1B.** Cutting 5 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12 threads. Length of stock, 16 in. Complete in handsome wood box, with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 7½ lbs. **\$6.50**

**83B4920—Easy Screw Plate, No. 2B.** Cutting 5 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12 threads. Has two stocks, one 15½ in. and one 23 in. long. Complete in handsome wood box, with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 14 lbs. **\$7.20**

**83B4922—Easy Screw Plate, No. 5B.** Cutting 7 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10 threads. Has two stocks, one 15½ in. and one 23 in. long. Complete in handsome wood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, 16 lbs. **\$8.65**

**83B4923—Easy Screw Plate, No. 5B.** Exact. Cutting 7 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10 threads. With two stocks, sizes 16 in. and taper taps. Complete in hardwood box. The dies and taps cut exact size for finished work. U. S. Standard thread. Weight, about 16 lbs. **\$8.70**

**83B4924—Easy Screw Plate, No. 7B.** Cutting 9 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8 threads. Has two stocks, one 16 in. and one 29 in. long. Complete in handsome wood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 19 lbs. **\$13.95**

**83B4926—Easy Screw Plate, No. 9B.** Cutting 10 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6 threads. Has two stocks, one 16½ in. and one 29 in. in length. Complete in handsome wood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 20 lbs. **\$15.65**

Compact, neat and strong. Make a perfect screw with a single cut. The dies are adjustable by means of a taper head screw with a taper nut, making them perfectly rigid and solid. Material and workmanship are of the very best. Dies and taps of special tool steel. We include with each set a Champion Adjustable Tap Wrench which has a square socket to fit the shank of each size tap in the set. Holds the tap firmly and always in the center. Is light, strong and well made.

**83B4918,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12** **\$6.50**



Construction of Easy Die

**83B4925—Easy Screw Plate, No. 11B.** Cutting 11 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5 threads. Has two stocks, one 16½ in. and one 29 in. in length. Complete in handsome wood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 21 lbs. **\$13.95**

**83B4927—Easy Screw Plate, No. 13B.** Cutting 13 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4 threads. Has two stocks, one 16½ in. and one 29 in. in length. Complete in handsome wood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V thread. Weight, about 23 lbs. **\$15.65**

## LIGHTNING SCREW PLATES



The Lightning Screw Plates have a world-wide reputation. Adjustable, yet have all the strength of a solid die. The dies are held rigidly in a solid collet, and adjustable by means of two screws and make a perfect thread with one cut. With dies and taper taps. V-threads,  $\frac{1}{2}$  in. over size. With die stock and adjustable tap wrench. Dies and taps of special tool steel. In handsome wood case.

**83B4955—Set No. 1193.** Cutting 7 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10 threads. Weight, 19½ lbs. **\$9.25**

**83B4956—Set No. 1199.** Cutting 9 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8 threads. Weight, about 29 lbs. **\$16.40**

**83B4957—Set No. 1203.** Cutting 11 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5 threads. Weight, about 31 lbs. **\$17.95**

**83B4958—Set No. 1207.** Cutting 13 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4 threads. Weight, about 33 lbs. **\$19.95**

**83B4959—Set No. 1211.** Cutting 15 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3 threads. Weight, about 35 lbs. **\$21.95**

**83B4960—Set No. 1223.** Cutting 7 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10 threads. Has a separate stock to each die and one adjustable tap wrench. Dies and taps of special tool steel. Complete in a handsome hardwood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. standard V thread. Weight, about 25 lbs. **\$11.50**

**83B4961—Set complete, same as above, but without hardwood box.** **\$10.95**

**83B4962—Set No. 1229.** Cutting 9 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8 threads. Has a separate stock to each die and one adjustable tap wrench. Complete in a handsome hardwood box with taper taps. The dies and taps cut  $\frac{1}{2}$  in. over size. Standard V threads. Dies and taps of special tool steel. Weight, about 40 lbs. **\$18.50**

**83B4963—Set complete, same as above, but without hardwood box.** **\$17.95**

**83B4964—Set No. 1233.** Cutting 11 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5 threads. Weight, about 42 lbs. **\$20.95**

**83B4965—Set No. 1237.** Cutting 13 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4 threads. Weight, about 44 lbs. **\$22.95**

**83B4966—Set No. 1241.** Cutting 15 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3 threads. Weight, about 46 lbs. **\$24.95**

**83B4967—Set No. 1245.** Cutting 17 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2 threads. Weight, about 48 lbs. **\$26.95**

**83B4968—Set No. 1249.** Cutting 19 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1 threads. Weight, about 50 lbs. **\$28.95**

**83B4969—Set No. 1253.** Cutting 21 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½ threads. Weight, about 52 lbs. **\$30.95**

**83B4970—Set No. 1257.** Cutting 23 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼ threads. Weight, about 54 lbs. **\$32.95**

**83B4971—Set No. 1261.** Cutting 25 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼,  $\frac{1}{1}$ -⅓ threads. Weight, about 56 lbs. **\$34.95**

**83B4972—Set No. 1265.** Cutting 27 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼,  $\frac{1}{1}$ -⅓,  $\frac{1}{1}$ -⅔ threads. Weight, about 58 lbs. **\$36.95**

**83B4973—Set No. 1269.** Cutting 29 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼,  $\frac{1}{1}$ -⅓,  $\frac{1}{1}$ -⅔,  $\frac{1}{1}$ -1½ threads. Weight, about 60 lbs. **\$38.95**

**83B4974—Set No. 1273.** Cutting 31 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼,  $\frac{1}{1}$ -⅓,  $\frac{1}{1}$ -⅔,  $\frac{1}{1}$ -1½,  $\frac{1}{1}$ -2 threads. Weight, about 62 lbs. **\$40.95**

**83B4975—Set No. 1277.** Cutting 33 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼,  $\frac{1}{1}$ -⅓,  $\frac{1}{1}$ -⅔,  $\frac{1}{1}$ -1½,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -2½ threads. Weight, about 64 lbs. **\$42.95**

**83B4976—Set No. 1281.** Cutting 35 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼,  $\frac{1}{1}$ -⅓,  $\frac{1}{1}$ -⅔,  $\frac{1}{1}$ -1½,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -2½,  $\frac{1}{1}$ -3 threads. Weight, about 66 lbs. **\$44.95**

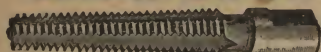
**83B4977—Set No. 1285.** Cutting 37 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼,  $\frac{1}{1}$ -⅓,  $\frac{1}{1}$ -⅔,  $\frac{1}{1}$ -1½,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -2½,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -3½ threads. Weight, about 68 lbs. **\$46.95**

**83B4978—Set No. 1289.** Cutting 39 sizes as follows:  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18,  $\frac{3}{8}$ -16,  $\frac{1}{2}$ -14,  $\frac{5}{8}$ -12,  $\frac{3}{4}$ -10,  $\frac{7}{8}$ -10,  $\frac{1}{1}$ -8,  $\frac{1}{1}$ -6,  $\frac{1}{1}$ -5,  $\frac{1}{1}$ -4,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -1,  $\frac{1}{1}$ -½,  $\frac{1}{1}$ -¼,  $\frac{1}{1}$ -⅓,  $\frac{1}{1}$ -⅔,  $\frac{1}{1}$ -1½,  $\frac{1}{1}$ -2,  $\frac{1}{1}$ -2½,  $\frac{1}{1}$ -3,  $\frac{1}{1}$ -3½,  $\frac{1}{$



# STANDARD THREAD CUTTING TOOLS PRICED LOW

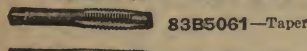
## BLACKSMITH'S TAPER TAPS



Extra quality steel. Easy cutting. Weighs 1/2 to 10 oz. Always state number of threads to inch.

Size, in.	Threads to Inch	Each
3/8	30, 32	11c
1/2	24, 26, 28, 30, 32	12c
5/8	18, 20, 22, 24, 26, 28, 30, 32	13c
3/4	12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	15c
7/8	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	18c
1	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	20c
1 1/8	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	25c
1 1/4	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	30c
1 1/2	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	35c
1 3/4	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	40c
2	8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32	45c

## MACHINISTS' HAND TAPS



83B5061—Taper

83B5062—Plug

83B5063—Bottoming

These taps are all made exact sizes, with standard V-thread, right hand. The very best grade of steel used, and the greatest care taken with their temper. All of our taps are Patent Relieved to facilitate their cutting. Weights range from about 1/2 to 10 oz.

Always state style wanted when ordering. (Right hand threads only.)

Inch Size	Threads to the In.	Each
3/8	24, 30, 32, 36	13c
1/2	20, 24, 32	17c
5/8	18, 20, 24, 32	18c
3/4	14, 16, 18, 20, 24, 32	20c
7/8	12, 14, 16, 18, 20, 24, 32	25c
1	10, 12, 14, 16, 18, 20, 24, 32	30c
1 1/8	10, 12, 20	43c
1 1/4	9, 10, 12	58c
1 1/2	8, 12	72c

## STOVE BOLT TAPS



83B5065—Right Hand Only. Finest tool steel, correctly tempered. Regular V-threads. Wt. 1/2 to 2 oz.

Size, in.	Threads to Inch	Each
3/8	24, 30, 32, 36	13c
1/2	20, 24, 32	17c
5/8	18, 20, 24, 32	18c
3/4	14, 16, 18, 20, 24, 32	20c
7/8	12, 14, 16, 18, 20, 24, 32	25c
1	10, 12, 14, 16, 18, 20, 24, 32	30c
1 1/8	10, 12, 20	43c
1 1/4	9, 10, 12	58c
1 1/2	8, 12	72c

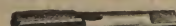
## PIPE TAPS



83B5070—With standard pipe threads. Best grade tool steel. Made in sizes to correspond with pipe measurements, that is, a 1/2 tap will thread a fitting or opening taking pipe measuring 1/2 in. inside diameter. Weights range from 2 oz. to 3 1/2 lbs.

Size, in.	Threads to Inch	Each
1/2	27, 30, 32, 36	45c
3/4	24, 27, 30, 32, 36	54c
1	20, 24, 27, 30, 32, 36	65c
1 1/4	16, 18, 20, 22, 24, 26, 28, 30, 32, 36	88c

## PIPE REAMERS



83B5071—For reaming out pipe fittings before threading. Best grade tool steel. Made in sizes to correspond with pipe tap measurements. Weights range from 2 oz. to 3 1/2 lbs.

Size, in.	Threads to Inch	Each
1/2	27, 30, 32, 36	45c
3/4	24, 27, 30, 32, 36	54c
1	20, 24, 27, 30, 32, 36	65c
1 1/4	16, 18, 20, 22, 24, 26, 28, 30, 32, 36	88c

## END BURNING REAMERS



Extra quality steel. For reaming pipe. Bit brace shank. 83B5072—For pipe 1/2 to 1 in. Tapers from 1/4 in. to 1/2 in. at point. Length of flute, 1 1/2 in. Wt. about 4 oz. Each. 83B5073—For pipe 1/2 to 1 1/4 in. Tapers from 1/4 in. to 1/2 in. at point. Length of flute, 2 1/4 in. Weight, 6 oz. Each.

## END BURNING REAMER



83B5075—For pipe 1/2 to 2 in. Cutters are made of the finest steel and can easily be renewed. Cast iron body. Diameter at point, 1/4 in. Diameter at largest part, 2 1/4 in. Length of cutter, 2 1/2 in. Weight, 1 lb. Each. 83B5076—Extra cutting blades. Weight, 1 oz. Each.

## HAND TAP WRENCH



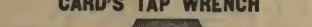
Wrought steel with four jawed chuck. 83B5080—For small taps up to 3/8 in. Wt. 3 oz. Each. 83B5081—For taps up to 1/2 in. Wt. 6 oz. Each.

## RATCHET TAP HOLDER



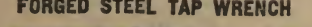
83B5078—Excellent for hand use with small drills, taps, reamers, etc. Reversible ratchet. Three-jawed chuck holds 0 to 3/4 in. Polished steel, with polished hardwood handle. Length, 5 in. Wt., 4 oz. Each.

## CARD'S TAP WRENCH



Steel handles. Two steel jaws, hardened and tempered. To adjust, turn knurled part of handle. Highly polished. 83B5084—Length, 5 in. For taps from 1/4 to 1/2 in. Wt., 1 lb. Each. 83B5085—Length, 10 in. For taps from 3/8 to 1 1/4 in. Wt., 1 lb. Each. 83B5086—Length, 14 in. For taps from 1/2 to 1 1/2 in. Wt., 2 lbs. Each.

## FORGED STEEL TAP WRENCH



Steel handles. Tempered steel jaws. To adjust, turn knurled part of handle. Finely polished. 83B5088—Length, 11 in. For taps 1/4 to 1/2 in. Wt., 14 oz. Each. 83B5089—Length, 15 in. For taps 1/2 to 3/4 in. Wt., 1 1/2 lbs. Each. 83B5090—Length, 20 in. For taps 3/4 to 1 in. Wt., 3 1/2 lbs. Each.

## BLACKSMITHS' STOCKS



## AND DIES

We save You 25 to 50 per cent and give you the best in the market

Article Number	Cuts to Inch	Threads to Inch Right Hand	Taps in Set	No. Dies in Set	Factory No.	Weight Pounds	Price Per Set
83B5020	5/16 to 3/8	18, 24, 32	4	3	55	5 1/2	\$1.20
83B5021	5/16 to 3/8	16, 20, 24, 32	4	3	53	5 1/2	1.40
83B5022	5/16 to 3/8	18, 20, 24, 32	4	3	53 A	5 1/2	1.40
83B5023	1/2 to 3/4	18, 20, 24	6	3	41	1 1/2	1.55
83B5024	1/2 to 3/4	14, 16, 18	6	3	41 A	2 1/4	1.55
83B5025	1/2 to 3/4	16, 18, 20	6	3	41 B	2 1/4	1.55
83B5026	1/2 to 3/4	12, 14, 16	6	3	41 C	2 1/4	1.55
83B5027	1/2 to 3/4	12, 16, 20	6	3	41 D	2 1/4	1.55
83B5028	1/2 to 3/4	12, 14, 18	6	3	41 E	2 1/4	1.55
83B5029	1/2 to 3/4	14 to 2 RH	6	3	42	2 1/2	1.70
83B5032	1/2 to 3/4	14 left hand	6	3	42 A	2 1/2	1.70
83B5033	1/2 to 3/4	12 left hand	6	3	37	2 3/4	1.95
83B5034	1/2 to 3/4	14, 18, 22	6	3	37 A	3 1/2	1.95
83B5035	1/2 to 3/4	12, 14, 16	6	3	37 B	3 1/2	1.95
83B5036	1/2 to 3/4	11, 12, 16	6	3	37 C	3 1/2	1.95
83B5037	1/2 to 3/4	10, 12, 16, 18	6	3	32 B	4 1/2	2.45
83B5038	1/2 to 3/4	10, 12, 14	6	3	34	4	2.20
83B5039	1/2 to 3/4	10, 12, 14	6	3	34 A	4	2.20
83B5040	1/2 to 3/4	12, 14, 16	6	3	34 B	4	2.20
83B5041	1/2 to 3/4	10, 11, 12, 14	4	4	32 A	5	2.45
83B5042	1/2 to 3/4	10, 11, 12	4	4	34 C	4 1/2	2.45
83B5043	1 to 1 1/4	9, 10, 12	3	3	23	8 1/2	2.45
83B5044	1 to 1 1/4	8, 10, 12	3	3	23 A	6 1/2	2.45

OUR BLACKSMITHS' STOCKS AND DIES are made by one of the oldest and best manufacturers in the country, and exactly as represented. The stocks are all full polished, nicely finished, and each set is packed complete in a box. The Dies and Taps are made from a high-grade special steel, all carefully hardened and tempered.

PLEASE NOTE:—We can furnish these stocks and dies in SIZES, THREADS AND ASSORTMENTS only as listed.

Article Number	Cuts to Inch	Threads to Inch Right Hand	Taps in Set	No. Dies in Set	Factory No.	Weight Pounds	Price Per Set
83B5045	1/2 to 3/4	10, 12, 14, 18	6	4	60	4 1/2	\$3.10
83B5046	1/2 to 3/4	12, 14, 16, 18	4	4	51 B	2 1/2	2.25
83B5047	1/2 to 3/4	12, 14, 16	3	3	51 A	2 1/2	1.95
83B5048	1 to 1 1/4	10, 12, 16	6	3	27	4 1/2	3.15
83B5049	1 to 1 1/4	8, 9, 10, 11	4	4	19 B	9	4.50

## PIPE STOCK AND DIES \$2.40



83B5100—Malleable Iron Pipe Stock, with polished handles. Solid square steel dies, finely finished and reliable quality. Handles screw into the head and can be easily removed for packing in tool kit. An excellent tool for all ordinary use. Dies larger than listed with set cannot be furnished. The No. 2 size has a leader screw. Pipe taps not included.

The dimensions of the dies are as follows: No. 0—2x2x1/2 in. No. 1—2 1/2x2 1/2x3/4 in. No. 1 1/2 and 1 1/4—3x3x3/4 in. No. 2—4x4x1/2 in. 83B5100—Stocks and Dies Complete.

Size	Cuts Pipe, In.	Wt. lbs.	Per Set
0	1/4, 3/8, 1/2, 5/8, 3/4, 1	8	\$2.40
1	1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4	19 1/2	2.35
1 1/2	1 1/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 3/4	25	2.60
2	1 1/2, 1 3/4, 2	15 1/2	3.80

Extra Dies and Guides.

Fitting Stock No.	Dies Each	83B5102 Guides Each
0	33c	7c
1	42c	8c
1 1/2	65c	10c
2	65c	10c
	83c	12c

Always give pipe size when ordering extra dies and guides.

## ECONOMY PIPE STOCK AND DIES



83B5105—Economy Pipe Dies are made with four cutters of the best steel, interlocked with two steel plates. The center of the stock is malleable iron. Handles of steel tubing polished and knurled at ends to prevent slipping; very fast, easy cutting tools. Pipe taps not included.

The dimensions of the dies are as follows: No. 0—2x2x1/2 in. No. 1 and 1 1/2—2 1/2x2 1/2x3/4 in. No. 1 1/2 and 1 1/4—3x3x3/4 in. No. 2 and 2 1/4—4x4x1/2 in. square. 83B5105—Stocks and Dies Complete.

Size	Cuts Pipe, In.	Wt. lbs.	Per Set
0	1/4, 3/8, 1/2, 5/8, 3/4, 1	8	\$1.90
1	1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4	8 1/2	2.98
1 1/2	1 1/4, 1 1/2, 1 3/4, 1 1/2, 1 3/4, 1 3/4	8 1/2	3.40
1 3/4	1 1/2, 1 3/4, 1 3/4, 1 3/4, 1 3/4, 1 3/4	9	3.20
2	1 3/4, 1 3/4, 2	10	4.00
2 1/4	1 3/4, 1 3/4, 2	13	4.75

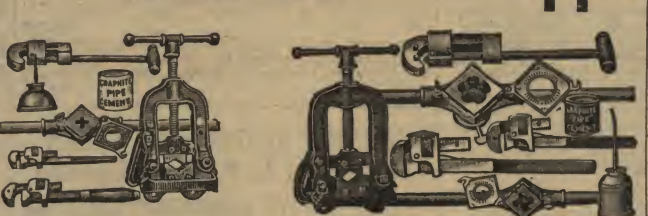
Extra Dies and Guides.

Fitting Stock No.	Dies Each	83B5107 Guide
0	31c	8c
1 and 1 1/2	41c	10c
1 1/2, 1 1/4, 1 1/2	52c	12c
2, 2 1/4	70c	15c

Always give pipe sizes when ordering extra dies and guides.

## PIPE FITTERS' TOOL SETS \$6.20

PARTICULARLY ADAPTED FOR USE IN FACTORIES, LAUNDRIES, SHOPS, ETC



Small Pipe Tool Set—1/4 to 1 in. 83B5160—Pipe Tool Set. Practical and convenient and often pay for themselves the first time used. Avoids the necessity of sending for a plumber or steam fitter, or shutting down a plant. All packed complete in a plain wooden box. Consists of the following high grade tools: 1 Pipe Stock, No. 1, to thread 1/4, 3/8, 1/2, and 1 in. pipe. 1 Pipe Cutter, Three-wheel, No. 1 cuts 1/4 to 1 in. pipe. 1 Malleable Pipe Vise. Takes 1/4 to 2 in. pipe. 1 Stillson Pipe Wrench, 10 in. Takes pipe 1/4 to 1 in. 1 Stillson Pipe Wrench, 14 in. Takes pipe 1/4 to 1 1/2 in. 1 Steel Oil Can, copper plated. 1 Can Graphite Pipe Joint Cement. Shipping weight of set, about 35 pounds. Per set \$6.20

Large Pipe Tool Set—1/4 to 2 in. 83B5162—Pipe Tool Set. An excellent outfit made up of tools taken from our regular stock. Will meet the requirements of any ordinary shop. Packed complete in a plain wooden box. Consists of the following tools, all high grade: 1 Pipe Stock No. 1, to thread 1/4, 3/8, 1/2, and 1 in. pipe. 1 Pipe Stock No. 2, to thread 1 1/4, 1 1/2, and 2 in. pipe. 1 Pipe Cutter No. 2, three-wheel. Cuts 1/4 to 2 in. pipe. 1 Malleable Pipe Vise. Takes 1/4 to 3 1/2 in. pipe. 1 Stillson Pipe Wrench, 14 in. Takes pipe 1/4 to 1 1/2 in. 1 Stillson Pipe Wrench, 18 in. Takes pipe 1/4 to 2 in. 1 Steel Oil Can, copper plated. 1 Can Graphite Joint Cement. Shipping weight of set, about 75 lbs. Per set \$11.45

## PIPE JOINT CEMENT

83B5608—For making a tight joint on steam and water pipe. A non-corrosive graphite cement or pipe joint grease. Always ready. In 1-lb. cans. Per can \$18c

## DUPLEX ADJUSTABLE PIPE DIE STOCK

With adjustable quick-opening dies. Turning back over finished threads is unnecessary. Dies throw open and stock is lifted off, thus saving time and wear on the dies. Adjustment is instantly made to suit any variation in size of pipe fittings. The tempered steel dies also cut easier than ordinary ones, because of the clearance given them. They can be sharpened as readily as a chisel. Adjustable guides center pipe accurately and do away with loose collets. Complete with handles. Pipe taps not included.



Mfrs. Size	For Pipe, Inches	Wt. Lbs.	83B5110 Without Cut off	83B5111 With Cut off
4 1/2	1/2, 3/4, 1, 1 1/4	9	\$ 7.35	\$ 8.95
4 3/4	3/4, 1, 1 1/4, 1 1/2	22	8.95	10.50
5	1, 1 1/4, 1 1/2, 1 3/4	25	11.55	13.10
5 1/2	1 1/4, 1 1/2, 1 3/4, 2	26	13.15	14.70

## BULL-DOG PIPE DIE STOCK

83B5115—The Oster Bull Dog Die Stock. With new lever controlled setting device, which provides instant and easy release of the dies without backing off. One movement of the lever opens and closes the dies. Duplicate threads can be made without re-setting. Are held in position by a positive lever lock.



The Dies are double taper, tempered steel, reducing the labor to a minimum and cutting a smooth, accurate thread. One set of dies cuts two sizes of thread. The bore of the stock is large enough to enter a coupling for cutting close nipples. The chuck has hardened steel jaws which center the pipe, and the adjustment guides do away with set screws and loose bushings. All wearing parts protected from dirt. Complete with handles. Not made with cutting off attachment. (Pipe taps not included.)

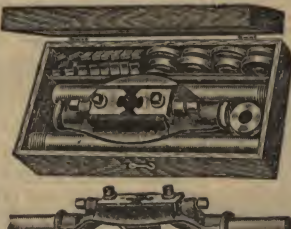
Size	For Pipe, Inches	Weight	Each
10 1/2	1/2, 3/4, 1, 1 1/4	10 1/2	\$ 6.85
10 3/4	3/4, 1, 1 1/4, 1 1/2	28	8.50
11	1, 1 1/4, 1 1/2, 1 3/4	30	11.55
11 1/2	1 1/4, 1 1/2, 1 3/4, 2	58	13.10
12	1 1/2, 1 3/4, 2, 2 1/4	61	21.00

## ARMSTRONG PATTERN ADJUSTABLE PIPE STOCK AND DIES

Can be adjusted to the variations in size of fittings. Will cut with much less labor, and in less time than with other dies.

All parts are standard in size and design, and interchangeable with similar parts of any of the standard makes of this pattern stock and dies.

## ARMSTRONG PATTERN STOCK NO. 2



83B5120—Set, No. 2. Cutting 5 sizes of pipe, 1/2 to 1 in., right hand. Tempered steel die. Length of stock with steel handles, 36 in. Packed complete in a new wood box. Weight, 15 lbs. Per set \$3.15

## EXTRA PIPE DIES



# ENGINEERS' AND STEAM FITTERS' STANDARD TOOLS

## PERFECT HANDLE WRENCH



**83B5182**—The entire bar is drop forged from one piece of steel and fitted with the famous Perfect Handle of waterproofed wood. Made of the best material throughout. Strong and durable. Black finish. (Give size.)

Trade Size	Opens	Weight	Each
8 inches	1 1/4 inches	1 1/2 pounds	\$0.45
10 inches	1 3/4 inches	2 1/4 pounds	.52
12 inches	2 1/8 inches	3 3/4 pounds	.60
15 inches	2 3/4 inches	5 pounds	1.00
21 inches	3 3/8 inches	10 1/2 pounds	1.50

## STEEL MONKEY WRENCH



**83B5180**—Standard Screw Wrench, with wrought-iron bar, head and screws with wood handle. (Give size.)

Size	Weight	Each
8 in. ....	1 1/4 lbs.	20c
10 in. ....	1 3/4 lbs.	25c
12 in. ....	2 1/4 lbs.	30c
15 in. ....	3 1/4 lbs.	40c

## GENUINE COE'S WRENCH



**83B5185**—Genuine Coe's Screw Wrenches, best wrought-iron bar head and screw. Without doubt one of the strongest and best wrenches on the market. Black finish. (Give size.)

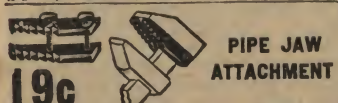
Trade Size, in.	Opens, in.	Weight	Each
6	3/4	3/4 lbs.	\$0.38
8	1	1 1/4 lbs.	.44
10	1 1/4	2 1/4 lbs.	.51
12	1 3/4	3 1/4 lbs.	.60
15	2 1/4	4 3/4 lbs.	1.05
21	3 1/4	8 3/4 lbs.	1.55

## COE'S STAR WRENCH



**83B5186**—Steel handles. Made for extra difficult service. Jaws are extra heavy steel. The larger sizes, 12 and 21 inch, have ball-bearing screw and extended screw support. Black finish. (Give size.)

Trade Size, in.	Opens, in.	Weight	Each
6	3/4	3/4 lb.	\$0.40
8	1	1 1/4 lbs.	.48
10	1 1/4	2 1/4 lbs.	.54
12	1 3/4	3 1/4 lbs.	.66
15	2 1/4	4 3/4 lbs.	1.16
21	3 1/4	8 3/4 lbs.	1.76



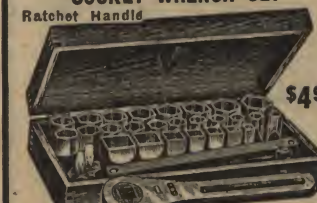
**83B5190**—For wrenches, 6 in. to 8 in. Wt., per pair, 6 oz. Per pair, 19c.  
**83B5191**—For wrenches, 10 in. and larger. Wt., per pair, 7 oz. Per pair, 23c.

## SOCKET WRENCH SET



**83B5212**—For factory work, assembling and repair shops. Complete in wooden case, containing 1 ratchet handle, length 10 in. mottled finish and hardened; 1 extension bar; 2 screw-driver bits; 18 sizes hexagon sockets (13/16 to 1 1/2). Sockets are case-hardened, pressed steel and fit a large variety of nuts, cap screws and set screws. Weight, complete, 7 1/2 lbs. Per set, \$4.90.

## SOCKET WRENCH SET \$2.10



**83B5210**—Socket Wrench Set, for millwright and factory use. Packed in wooden case, as shown; containing 1 off-set socket wrench, 1 regular T handle socket wrench, and 14 sizes of pressed steel hexagon sockets in sizes from 13/16-inch to 1 1/2-inch. The sockets are case hardened steel mottled finish, and fit hexagon bolts and nuts in general use. Weight, complete, 5 1/2 lbs. Per set, \$2.10.

## TRIMO PIPE CUTTER



**83B5307**—Cuts pipe 1/2 to 1 1/4 in. Weight, 5 1/2 lbs. Each, \$1.50.  
Extra wheel, 14c. Extra roll, .13.  
**83B5308**—Cuts pipe 1/2 to 2 in. Weight, 6 lbs. Each, \$2.00.  
Extra wheel, 14c. Extra roll, .15.  
**83B5309**—Cuts pipe 1 1/4 to 3 in. Weight, 9 1/2 lbs. Each, \$3.35.  
Extra wheel, 18c. Extra roll, .20.

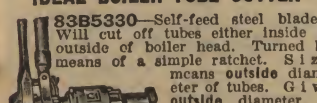
## SPRING TUBE EXPANDER



**83B5322**—Will expand the tube on both sides of the tube plate, while the ends retain their original thickness. Made of high grade steel. Give size—outside diameter of tubes, and thickness of tube sheet.

Size	Weight	Each
2 in.	1 1/4 lbs.	\$9.80
3 in.	2 1/4 lbs.	9.80
4 in.	3 1/4 lbs.	2.40
5 in.	4 1/4 lbs.	2.70
6 in.	5 1/4 lbs.	3.00
8 in.	7 1/4 lbs.	4.35

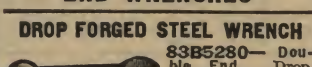
## ROLLER TUBE EXPANDER \$1.25



**83B5320**—A popular tool. High grade steel. With extra set of rolls and turning pin. Give size—the outside diameter of tubes or flues.

Size	Weight	Each
1 1/4 in.	1 1/4 lbs.	\$2.15
2 in.	2 1/4 lbs.	2.40
3 in.	3 1/4 lbs.	2.70
4 in.	4 1/4 lbs.	3.00
5 in.	5 1/4 lbs.	3.35
6 in.	7 1/4 lbs.	4.35

## FORGED STEEL DOUBLE END WRENCHES



**83B5280**—Double End Drop forged steel, black finish. Give size.

Size	Length, in.	Size Openings, in.	Wt., Ea.	Each
3 1/4	3 1/4	3/4 and 1	5 oz.	5c
3 3/4	3 3/4	7/8 and 1 1/8	5 oz.	6c
4	4	1 and 1 1/4	6 oz.	7c
4 1/4	4 1/4	1 1/8 and 1 1/2	6 oz.	8c
4 1/2	4 1/2	1 1/4 and 1 3/4	6 oz.	10c
4 3/4	4 3/4	1 1/2 and 1 3/4	6 oz.	11c
5	5	1 3/4 and 2	7 oz.	13c
5 1/4	5 1/4	2 and 2 1/4	7 oz.	16c
5 1/2	5 1/2	2 1/4 and 2 1/2	7 oz.	18c
5 3/4	5 3/4	2 1/2 and 2 3/4	7 oz.	21c
6	6	2 3/4 and 3	8 1/4 lbs.	40c
6 1/4	6 1/4	3 and 3 1/4	8 1/4 lbs.	52c
6 1/2	6 1/2	3 1/4 and 3 1/2	8 1/4 lbs.	52c
6 3/4	6 3/4	3 1/2 and 3 3/4	8 1/4 lbs.	72c
7	7	3 3/4 and 4	8 1/4 lbs.	72c

## DOUBLE END WRENCH SETS

Solid steel, in sets of 5 wrenches. Lengths, 3 1/4 to 8 in., with openings 1/4 in. to 1 in. Weight of set, 1 1/2 lbs.  
**83B5282**—Extra finish, with polished jaws. Per set, 50c.  
**83B5283**—Semi-finished, mottled surface. Per set, 35c.

## STEEL WRENCH SET, 45c



**83B5285**—A set of five drop forged steel, general purpose wrenches. Assorted lengths, from 3 1/4 to 10 1/4 in., and with openings from 3/4 to 1 in. Weight, 2 1/2 lbs. Usual 75c retail value. Per set, 45c.

## EXTRA QUALITY S WRENCH SET

**83B5286**—Extra quality drop forged S wrenches. Hardened, steel and very polished ends, in neat canvas roll. Weight, 3 lbs. Per set of 5 wrenches with roll, \$1.20.

## GENERAL SERVICE S WRENCH

**83B5290**—General Service S wrenches. Made long and slender, a very convenient and desirable shape. Forged steel. Give size.

No.	Length, in.	Openings, in.	Weight Each
300	6 1/4	3/4 and 1	3 oz. 6c
301	7	7/8 and 1 1/8	5 oz. 7c
302	7 1/4	1 and 1 1/4	6 oz. 10c
303	8	1 1/8 and 1 1/2	7 oz. 13c
304	10 1/4	2 and 2 1/4	1 lb. 15c

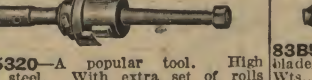
## TIRE BOLT RATCHET WRENCH

**83B5294**—Strong and durable. For tire bolts. Malleable iron body. All working parts are carefully hardened. One end is for 3/16 in. and the other for 1/4 in. tire or carriage bolts. A great time saver. Length, 6 in.; weight, 6 oz. Each, 62c.

## THREE-WHEEL PIPE CUTTER

**83B5300**—Cuts from 1/2 to 1 in. Weight, 3 1/4 lbs. Each, \$0.90.  
Extra wheels, each 6c. Give Art. No. of Pipe Cutter for which wheel is wanted.  
**83B5301**—Cuts from 1/2 to 2 in. Weight, 5 1/2 lbs. Each, 1.20.  
Extra wheels, each 8c. Give Art. No. of Pipe Cutter for which wheel is wanted.  
**83B5302**—Cuts from 1/2 to 3 in. Weight, 8 1/4 lbs. Each, 2.00.  
Extra wheels, each, 10c. Give Art. No. of Pipe Cutter for which wheel is wanted.


## PERFECTION FLUE CLEANER




**83B5345**—Spring steel blades. Self sharpening. Wts., 3/4 to 8 lbs. Give size—outside diam. of tube. Size, in. 1 1/4 1 1/2 1 3/4 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 10 1/2 11 11 1/2 12 12 1/2 13 13 1/2 14 14 1/2 15 15 1/2 16 16 1/2 17 17 1/2 18 18 1/2 19 19 1/2 20 20 1/2 21 21 1/2 22 22 1/2 23 23 1/2 24 24 1/2 25 25 1/2 26 26 1/2 27 27 1/2 28 28 1/2 29 29 1/2 30 30 1/2 31 31 1/2 32 32 1/2 33 33 1/2 34 34 1/2 35 35 1/2 36 36 1/2 37 37 1/2 38 38 1/2 39 39 1/2 40 40 1/2 41 41 1/2 42 42 1/2 43 43 1/2 44 44 1/2 45 45 1/2 46 46 1/2 47 47 1/2 48 48 1/2 49 49 1/2 50 50 1/2 51 51 1/2 52 52 1/2 53 53 1/2 54 54 1/2 55 55 1/2 56 56 1/2 57 57 1/2 58 58 1/2 59 59 1/2 60 60 1/2 61 61 1/2 62 62 1/2 63 63 1/2 64 64 1/2 65 65 1/2 66 66 1/2 67 67 1/2 68 68 1/2 69 69 1/2 70 70 1/2 71 71 1/2 72 72 1/2 73 73 1/2 74 74 1/2 75 75 1/2 76 76 1/2 77 77 1/2 78 78 1/2 79 79 1/2 80 80 1/2 81 81 1/2 82 82 1/2 83 83 1/2 84 84 1/2 85 85 1/2 86 86 1/2 87 87 1/2 88 88 1/2 89 89 1/2 90 90 1/2 91 91 1/2 92 92 1/2 93 93 1/2 94 94 1/2 95 95 1/2 96 96 1/2 97 97 1/2 98 98 1/2 99 99 1/2 100 100 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# STANDARD CAST BRASS VALVES AND COCKS

**Standard Brass Globe Valves**  
  
**83B5400**—Ground valve disc and seat. Tight fitting. Average wts. are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.29
1/2	1 1/4	.30
3/4	1 3/4	.33
1	1 7/8	.35
1 1/4	2 1/8	.43
1 1/2	2 3/4	.45
1 3/4	3 1/8	.76
2	3 3/4	1.08
2 1/4	4 1/8	1.48
2 1/2	4 3/4	2.25

**Composition Disc Globe Valves**  
  
**83B5401**—Cast brass body and stem. Hard composition disc. Average weights are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.35
1/2	1 1/4	.40
3/4	1 1/2	.52
1	1 3/4	.70
1 1/4	2 1/8	.90
1 1/2	2 3/4	1.26
1 3/4	3 1/8	1.75
2	3 3/4	2.80

**Standard Brass Angle Valves**  
  
**83B5402**—Ground valve disc and seat. Average weights are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.29
1/2	1 1/4	.30
3/4	1 3/4	.33
1	1 7/8	.35
1 1/4	2 1/8	.43
1 1/2	2 3/4	.45
1 3/4	3 1/8	.76
2	3 3/4	1.08
2 1/4	4 1/8	1.48
2 1/2	4 3/4	2.25

**Composition Disc Angle Valves**  
  
**83B5403**—Cast brass body and stem. Hard composition disc. Average weights are given.  

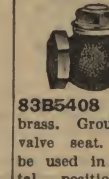
Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.35
1/2	1 1/4	.40
3/4	1 1/2	.52
1	1 3/4	.70
1 1/4	2 1/8	.90
1 1/2	2 3/4	1.26
1 3/4	3 1/8	1.75
2	3 3/4	2.80

**Standard Brass Gate Valves**  
  
**83B5406**—Gate in valve lifts up, allowing free passage. Average weights are given.  

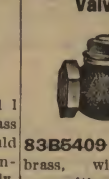
Pipe, In.	Wt., Lbs.	Each
1/4	1 1/4	\$0.50
1/2	1 3/4	.62
3/4	2 1/8	.78
1	2 3/4	1.15
1 1/4	3 1/8	1.55
1 1/2	3 3/4	2.25

**Iron Body Gate Valves**  
  
**83B5407**—Brass trimmings. Allow a full flow and unobstructed passage. Average weights are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	1 1/4	\$2.85
1/2	1 3/4	3.40
3/4	2 1/8	4.00
1	2 3/4	5.40

**Standard Horizontal Check Valves**  
  
**83B5408**—All brass. Ground brass valve seat. Should be used in horizontal position only. Average weights are given.  

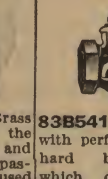
Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.28
1/2	1 1/4	.29
3/4	1 3/4	.30
1	1 7/8	.32
1 1/4	2 1/8	.52
1 1/2	2 3/4	.70
1 3/4	3 1/8	1.00
2	3 3/4	1.40
2 1/4	4 1/8	2.10

**Composition Disc Horizontal Check Valves**  
  
**83B5409**—All brass, with hard composition disc. Makes a tight fitting valve. Average weights are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.39
1/2	1 1/4	.55
3/4	1 1/2	.78
1	1 3/4	1.08
1 1/4	2 1/8	1.50
1 1/2	2 3/4	2.25

**Brass Swing Check Valve**  
  
**83B5410**—Brass disc hinged at the top, swings up and permits a clear passage. Can be used in a horizontal or vertical position. Average weights are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.54
1/2	1 1/4	.56
3/4	1 1/2	.70
1	1 3/4	.88
1 1/4	2 1/8	1.05
1 1/2	2 3/4	1.35
1 3/4	3 1/8	1.85

**Brass Ball Check Valves**  
  
**83B5412**—Fitted with perfectly round, hard brass ball, which drops in ground seat. Can be used in a horizontal position only. Average weights are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.84
1/2	1 1/4	1.20
3/4	1 1/2	1.60
1	1 3/4	2.10

**Brass Vertical Check Valves**  
  
**83B5413**—Can be used on vertical pipes only. Ground brass valve seat and disc. Average weights are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.30
1/2	1 1/4	.40
3/4	1 3/4	.50
1	1 7/8	.72

**Brass Steam Cocks**  
  
**83B5416**—Square heads. All brass. Tight fitting ground key. Average weights are given.  


Pipe, In.	Wt., Lbs.	Each
1/4	3/4	\$0.25
1/2	1 1/4	.38
3/4	1 1/2	.52
1	1 3/4	.70
1 1/4	2 1/8	1.10
1 1/2	2 3/4	1.45
1 3/4	3 1/8	2.20

**Brass Three-way Cocks**  
  
**83B5417**—With square head. All brass. Tight fitting ground key. Average weights are given.  

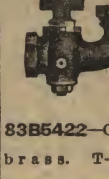
Pipe, In.	Wt., Lbs.	Each
1/4	1 1/4	\$0.79
1/2	1 3/4	1.17
3/4	2 1/8	1.80
1	2 3/4	2.22
1 1/4	3 1/8	3.48

**Brass Rough Stops**  
  
**83B5420**—T-handle, with check and waste. Average weights are given.  

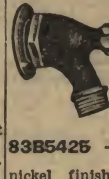
Pipe, In.	Wt., Lbs.	Each
1/4	1 1/4	\$0.38
1/2	1 3/4	.63
3/4	2 1/8	.85
1	2 3/4	1.45

**Brass Rough Stop**  
  
**83B5421**—Lever handle, with check and waste. Average weights are given.  

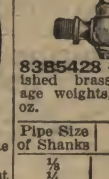
Pipe, In.	Wt., Lbs.	Each
1/4	1 1/4	\$0.40
1/2	1 3/4	.65
3/4	2 1/8	.88
1	2 3/4	1.20

**Brass Hydrant Cocks**  
  
**83B5422**—Cast brass. T-handle. Rough finish, with check and waste. Average weight, 1 1/2 and 2 lbs.  

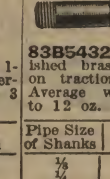
Pipe, In.	Each
1/4	\$0.85
1/2	1.20

**Brass Sill Cocks**  
  
**83B5425**—White nickel finish. Cast wheel. Large opening, to take 1/4 in. hose. Wts., about 12 oz.  

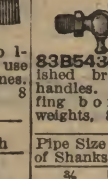
Pipe Size of Shanks	Each
1/4	10c
1/2	12c
3/4	13c
1	15c

**Brass Air Cocks**  
  
**83B5428**—Polished brass. Average weights, 2 to 3 oz.  


Pipe Size of Shanks	Each
1/4	10c
1/2	12c
3/4	13c
1	15c

**Cylinder Cocks**  
  
**83B5432**—Polished brass for use on traction engines. Average weights, 8 to 12 oz.  

Pipe Size of Shanks	Each
1/4	42c
1/2	46c
3/4	50c
1	55c


**Compression Gauge Cocks**  
  
**83B5434**—Polished brass. Wood handles. With stuffing box. Average weights, 8 to 10 oz.  

Pipe Size of Shanks	Each
1/4	35c
1/2	38c
3/4	43c


**Brass Air Cocks**  
  
**83B5430**—Cast brass. Polished. Average weights, 3 to 6 oz.  

Pipe Size of Shanks	Each
1/4	\$0.18
1/2	.20
3/4	.23
1	.25

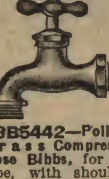
## POLISHED BRASS and NICKEL PLATED BIBBS and COCKS

**Brass Bibbs or Faucets**  
  
**83B5440**—Polished Brass Hose Bibbs for iron pipe. Lever handle.  

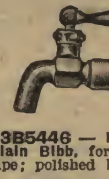
Pipe Size	Weight, Lbs.	Each
1/4	3/4	\$0.80
1/2	1 1/4	.40
1	2	1.30

**Compression Bibbs**  
  
**83B5443**—Polished Brass Compression Plain Bibbs, for iron pipes, with shoulder.  


Pipe Size	Weight, Lbs.	Each
1/4	3/4	\$0.37
1/2	1 1/4	.48
1	2 1/2	1.10

**Compression Bibbs**  
  
**83B5442**—Polished Brass Compression Hose Bibbs, for iron pipes, with shoulder.  

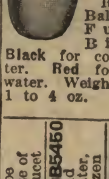
Pipe Size	Weight, Lbs.	Each
1/4	3/4	\$0.40
1/2	1 1/4	.53
1	2 1/2	1.25

**Fuller Plain Bibbs**  
  
**83B5446**—Fuller Plain Bibbs, for iron pipe; polished brass.  

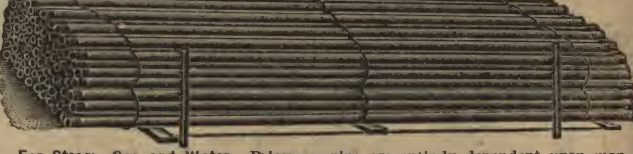
Pipe Size	Weight, Lbs.	Each
1/4	3/4	\$0.42
1/2	1 1/4	.55
1	2	1.45

**Fuller Hose Bibbs**  
  
**83B5447**—Fuller Pattern Hose Bibb for iron pipe; polished brass.  

Pipe Size	Weight, Lbs.	Each
1/4	3/4	\$0.52
1/2	1 1/4	.65
1	2	1.65

**Fuller Balls**  
  
Rubber Balls for Fuller Bibbs. Black for cold water. Red for hot water. Weight, doz., 1 to 4 oz.

## STANDARD WROUGHT PIPE



For Steam, Gas and Water. Prices on pipe are entirely dependent upon market conditions, making it impossible to quote a fixed price in this catalogue. We allow our customers the benefit of all declines in market prices, whether asked for or not, and assure you that you will at all times have the benefit of the very lowest prices ruling at the time your order is received.

The size of pipe is determined by its INSIDE diameter (not outside). The following prices are for pipe coupled and threaded in random lengths; that is, in pieces as they come from the mills, ranging between 16 and 20 feet. When ordering pipe cut to exact lengths, always make allowance for cutting and threading. Couplings are included only with pipe in random lengths. If cut to exact lengths couplings are extra. Please write us for latest prices on Pipe. Subject to market changes.

Size, inside diameter, inches	Approximate weight per foot, lbs.	183B5600 Black, per foot	183B5602 Galvanized, per foot	For cutting extra threads, per cut
1/4	3/4	\$0.02	(1/4 in. not furnished)	\$0.02
1/2	1 1/4	.02	.03 1/2	.02
3/4	1 3/4	.02	.03 1/2	.02
1	2	.03	.03 1/2	.02
1 1/4	2 3/4	.04	.06	.03
1 1/2	3 1/4	.07	.08	.04
2	4 3/4	.09 1/2	.13	.04

If pipe is ordered cut to exact lengths with ends threaded, we make an extra charge to cover labor, as noted above. For instance, if you order 10 feet of 1 1/4-inch pipe cut and threaded there will be an extra charge of two cuts at 8c each.

For plumbing and Reaming 2 in. pipe for Bureka cylinders, extra charge per foot . . . . .1c

Please Note—The size of pipe is determined by its inside diameter (not outside) and the size of a pipe fitting is determined by the size of pipe it will take.

**WITH CLEAN CUT THREADS**

**MALLEABLE PIPE FITTINGS**  
Made of a good grade of Malleable Iron, with clean cut threads, for Standard Wrought Merchant Pipe.  
Please Note—The size of pipe is determined by its inside diameter (not outside) and the size of a pipe fitting is determined by the size of pipe it will take.  
This applies to all iron and brass fittings, valves, air cocks, oil cups, whistles and other engine trimmings.  
For instance: A 1/4-inch elbow or valve will fit a wrought pipe measuring 3/4-inch inside diameter. The opening in the fitting or valve will be large enough to take the 1/4-in. pipe (inside diameter) and the opening of this particular size fitting (3/4-inch) will measure approximately 15-16 inch.

PIPE SIZE (Inside diameter of pipe which fittings will fit.)	ELBOW		TEE		CROSS		REDUCER		PIPE CAP	
	BLACK	GALV'D	BLACK	GALV'D	BLACK	GALV'D	BLACK	GALV'D	BLACK	GALV'D
1/4	83B5360	83B5361	83B5364	83B5365	83B5368	83B5369	83B5370	83B5371	83B5372	83B5373
1/2	2 1/4	3 1/4	2 1/4	3 1/4	2 1/4	3 1/4	2 1/4	3 1/4	2 1/4	3 1/4
3/4	2 1/2	3 1/2	2 1/2	3 1/2	2 1/2	3 1/2	2 1/2	3 1/2	2 1/2	3 1/2
1	2 3/4	3 3/4	2 3/4	3 3/4	2 3/4	3 3/4	2 3/4	3 3/4	2 3/4	3 3/4
1 1/4	3 1/4	4 1/4	3 1/4	4 1/4	3 1/4	4 1/4	3 1/4	4 1/4	3 1/4	4 1/4
1 1/2	3 3/4	4 3/4	3 3/4	4 3/4	3 3/4	4 3/4	3 3/4	4 3/4	3 3/4	4 3/4
2	4 1/4	5 1/4	4 1/4	5 1/4	4 1/4	5 1/4	4 1/4	5 1/4	4 1/4	5 1/4

PIPE SIZE (See description)	UNION		WROUGHT COUPLING		NIPPLES		LOCK NUTS		CAST PLUGS		BUSHINGS	
	BLACK	GALV'D	BLACK	GALV'D	BLACK	GALV'D	BLACK	GALV'D	BLACK	GALV'D	BLACK	GALV'D
1/4	83B5374	83B5375	83B5378	83B5379	83B5380	83B5381	83B5382	83B5383	83B5386	83B5387	83B5388	83B5389
1/2	2 1/4	3 1/4	2 1/4	3 1/4	2 1/4	3 1/4	2 1/4	3 1/4	2 1/4	3 1/4	2 1/4	3 1/4
3/4	2 1/2	3 1/2	2 1/2	3 1/2	2 1/2	3 1/2	2 1/2	3 1/2	2 1/2	3 1/2	2 1/2	3 1/2
1	2 3/4	3 3/4	2 3/4	3 3/4	2 3/4	3 3/4	2 3/4	3 3/4	2 3/4	3 3/4	2 3/4	3 3/4
1 1/4	3 1/4	4 1/4	3 1/4	4 1/4	3 1/4	4 1/4	3 1/4	4 1/4	3 1/4	4 1/4	3 1/4	4 1/4
1 1/2	3 3/4	4 3/4	3 3/4	4 3/4	3 3/4	4 3/4	3 3/4	4 3/4	3 3/4	4 3/4	3 3/4	4 3/4
2	4 1/4	5 1/4	4 1/4	5 1/4	4 1/4	5 1/4	4 1/4	5 1/4	4 1/4	5 1/4	4 1/4	5 1/4



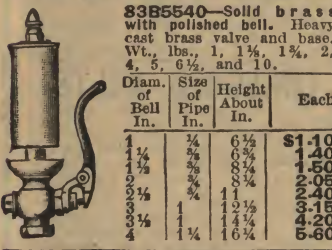
# ENGINE TRIMMINGS OF QUALITY AT LOW PRICES

## COLUMBIA SIGHT-FEED LUBRICATORS \$335 to \$620



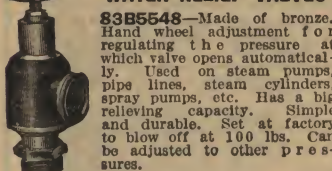
Capacity	Height	For Cylinder Diameter	Each
1/2 pint	11 in.	Under 10 in.	\$3.35
1 pint	13 in.	10 to 12 in.	3.70
1 1/2 pint	15 in.	12 to 14 in.	4.10
2 pint	17 in.	14 to 16 in.	4.50
2 1/2 pint	19 in.	16 to 18 in.	4.90
3 pint	21 in.	18 to 20 in.	5.30
3 1/2 pint	23 in.	20 to 22 in.	5.70
4 pint	25 in.	22 to 24 in.	6.10

## STEAM WHISTLE WITH VALVE



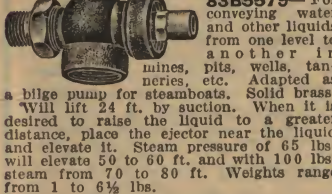
Diam. of Bell In.	Size of Pipe In.	Height of Valve In.	Each
1 1/2	1 1/2	6 1/2	\$1.10
2	2	8 1/2	1.40
2 1/2	2 1/2	10 1/2	1.70
3	3	12 1/2	2.00
3 1/2	3 1/2	14 1/2	2.30
4	4	16 1/2	2.60
4 1/2	4 1/2	18 1/2	2.90
5	5	20 1/2	3.20
5 1/2	5 1/2	22 1/2	3.50
6	6	24 1/2	3.80
6 1/2	6 1/2	26 1/2	4.10
7	7	28 1/2	4.40
7 1/2	7 1/2	30 1/2	4.70
8	8	32 1/2	5.00
8 1/2	8 1/2	34 1/2	5.30
9	9	36 1/2	5.60
9 1/2	9 1/2	38 1/2	5.90
10	10	40 1/2	6.20

## WHISTLE VALVES



Pipe Size	Wgt.	Each
1/2	10 oz.	\$0.72
3/4	14 oz.	.92
1	1 1/2 lb.	1.10
1 1/4	2 lb.	1.25
1 1/2	2 1/2 lb.	1.40
1 3/4	3 lb.	1.50

## WATER RELIEF VALVES



Pipe Size	Wgt. About Lbs.	Each
1/2	1 1/2	\$2.40
3/4	2	2.90
1	2 1/2	3.40
1 1/4	3 1/2	3.90
1 1/2	4 1/2	4.40
1 3/4	5 1/2	4.90
2	6 1/2	5.40
2 1/4	7 1/2	5.90
2 1/2	8 1/2	6.40
2 3/4	9 1/2	6.90
3	10 1/2	7.40
3 1/4	11 1/2	7.90
3 1/2	12 1/2	8.40
3 3/4	13 1/2	8.90
4	14 1/2	9.40
4 1/4	15 1/2	9.90
4 1/2	16 1/2	10.40
4 3/4	17 1/2	10.90
5	18 1/2	11.40
5 1/4	19 1/2	11.90
5 1/2	20 1/2	12.40
5 3/4	21 1/2	12.90
6	22 1/2	13.40
6 1/4	23 1/2	13.90
6 1/2	24 1/2	14.40
6 3/4	25 1/2	14.90
7	26 1/2	15.40
7 1/4	27 1/2	15.90
7 1/2	28 1/2	16.40
7 3/4	29 1/2	16.90
8	30 1/2	17.40
8 1/4	31 1/2	17.90
8 1/2	32 1/2	18.40
8 3/4	33 1/2	18.90
9	34 1/2	19.40
9 1/4	35 1/2	19.90
9 1/2	36 1/2	20.40
9 3/4	37 1/2	20.90
10	38 1/2	21.40
10 1/4	39 1/2	21.90
10 1/2	40 1/2	22.40
10 3/4	41 1/2	22.90
11	42 1/2	23.40
11 1/4	43 1/2	23.90
11 1/2	44 1/2	24.40
11 3/4	45 1/2	24.90
12	46 1/2	25.40
12 1/4	47 1/2	25.90
12 1/2	48 1/2	26.40
12 3/4	49 1/2	26.90
13	50 1/2	27.40
13 1/4	51 1/2	27.90
13 1/2	52 1/2	28.40
13 3/4	53 1/2	28.90
14	54 1/2	29.40
14 1/4	55 1/2	29.90
14 1/2	56 1/2	30.40
14 3/4	57 1/2	30.90
15	58 1/2	31.40
15 1/4	59 1/2	31.90
15 1/2	60 1/2	32.40
15 3/4	61 1/2	32.90
16	62 1/2	33.40
16 1/4	63 1/2	33.90
16 1/2	64 1/2	34.40
16 3/4	65 1/2	34.90
17	66 1/2	35.40
17 1/4	67 1/2	35.90
17 1/2	68 1/2	36.40
17 3/4	69 1/2	36.90
18	70 1/2	37.40
18 1/4	71 1/2	37.90
18 1/2	72 1/2	38.40
18 3/4	73 1/2	38.90
19	74 1/2	39.40
19 1/4	75 1/2	39.90
19 1/2	76 1/2	40.40
19 3/4	77 1/2	40.90
20	78 1/2	41.40
20 1/4	79 1/2	41.90
20 1/2	80 1/2	42.40
20 3/4	81 1/2	42.90
21	82 1/2	43.40
21 1/4	83 1/2	43.90
21 1/2	84 1/2	44.40
21 3/4	85 1/2	44.90
22	86 1/2	45.40
22 1/4	87 1/2	45.90
22 1/2	88 1/2	46.40
22 3/4	89 1/2	46.90
23	90 1/2	47.40
23 1/4	91 1/2	47.90
23 1/2	92 1/2	48.40
23 3/4	93 1/2	48.90
24	94 1/2	49.40
24 1/4	95 1/2	49.90
24 1/2	96 1/2	50.40
24 3/4	97 1/2	50.90
25	98 1/2	51.40
25 1/4	99 1/2	51.90
25 1/2	100 1/2	52.40
25 3/4	101 1/2	52.90
26	102 1/2	53.40
26 1/4	103 1/2	53.90
26 1/2	104 1/2	54.40
26 3/4	105 1/2	54.90
27	106 1/2	55.40
27 1/4	107 1/2	55.90
27 1/2	108 1/2	56.40
27 3/4	109 1/2	56.90
28	110 1/2	57.40
28 1/4	111 1/2	57.90
28 1/2	112 1/2	58.40
28 3/4	113 1/2	58.90
29	114 1/2	59.40
29 1/4	115 1/2	59.90
29 1/2	116 1/2	60.40
29 3/4	117 1/2	60.90
30	118 1/2	61.40
30 1/4	119 1/2	61.90
30 1/2	120 1/2	62.40
30 3/4	121 1/2	62.90
31	122 1/2	63.40
31 1/4	123 1/2	63.90
31 1/2	124 1/2	64.40
31 3/4	125 1/2	64.90
32	126 1/2	65.40
32 1/4	127 1/2	65.90
32 1/2	128 1/2	66.40
32 3/4	129 1/2	66.90
33	130 1/2	67.40
33 1/4	131 1/2	67.90
33 1/2	132 1/2	68.40
33 3/4	133 1/2	68.90
34	134 1/2	69.40
34 1/4	135 1/2	69.90
34 1/2	136 1/2	70.40
34 3/4	137 1/2	70.90
35	138 1/2	71.40
35 1/4	139 1/2	71.90
35 1/2	140 1/2	72.40
35 3/4	141 1/2	72.90
36	142 1/2	73.40
36 1/4	143 1/2	73.90
36 1/2	144 1/2	74.40
36 3/4	145 1/2	74.90
37	146 1/2	75.40
37 1/4	147 1/2	75.90
37 1/2	148 1/2	76.40
37 3/4	149 1/2	76.90
38	150 1/2	77.40
38 1/4	151 1/2	77.90
38 1/2	152 1/2	78.40
38 3/4	153 1/2	78.90
39	154 1/2	79.40
39 1/4	155 1/2	79.90
39 1/2	156 1/2	80.40
39 3/4	157 1/2	80.90
40	158 1/2	81.40
40 1/4	159 1/2	81.90
40 1/2	160 1/2	82.40
40 3/4	161 1/2	82.90
41	162 1/2	83.40
41 1/4	163 1/2	83.90
41 1/2	164 1/2	84.40
41 3/4	165 1/2	84.90
42	166 1/2	85.40
42 1/4	167 1/2	85.90
42 1/2	168 1/2	86.40
42 3/4	169 1/2	86.90
43	170 1/2	87.40
43 1/4	171 1/2	87.90
43 1/2	172 1/2	88.40
43 3/4	173 1/2	88.90
44	174 1/2	89.40
44 1/4	175 1/2	89.90
44 1/2	176 1/2	90.40
44 3/4	177 1/2	90.90
45	178 1/2	91.40
45 1/4	179 1/2	91.90
45 1/2	180 1/2	92.40
45 3/4	181 1/2	92.90
46	182 1/2	93.40
46 1/4	183 1/2	93.90
46 1/2	184 1/2	94.40
46 3/4	185 1/2	94.90
47	186 1/2	95.40
47 1/4	187 1/2	95.90
47 1/2	188 1/2	96.40
47 3/4	189 1/2	96.90
48	190 1/2	97.40
48 1/4	191 1/2	97.90
48 1/2	192 1/2	98.40
48 3/4	193 1/2	98.90
49	194 1/2	99.40
49 1/4	195 1/2	99.90
49 1/2	196 1/2	100.40
49 3/4	197 1/2	100.90
50	198 1/2	101.40
50 1/4	199 1/2	101.90
50 1/2	200 1/2	102.40
50 3/4	201 1/2	102.90
51	202 1/2	103.40
51 1/4	203 1/2	103.90
51 1/2	204 1/2	104.40
51 3/4	205 1/2	104.90
52	206 1/2	105.40
52 1/4	207 1/2	105.90
52 1/2	208 1/2	106.40
52 3/4	209 1/2	106.90
53	210 1/2	107.40
53 1/4	211 1/2	107.90
53 1/2	212 1/2	108.40
53 3/4	213 1/2	108.90
54	214 1/2	109.40
54 1/4	215 1/2	109.90
54 1/2	216 1/2	110.40
54 3/4	217 1/2	110.90
55	218 1/2	111.40
55 1/4	219 1/2	111.90
55 1/2	220 1/2	112.40
55 3/4	221 1/2	112.90
56	222 1/2	113.40
56 1/4	223 1/2	113.90
56 1/2	224 1/2	114.40
56 3/4	225 1/2	114.90
57	226 1/2	115.40
57 1/4	227 1/2	115.90
57 1/2	228 1/2	116.40
57 3/4	229 1/2	116.90
58	230 1/2	117.40
58 1/4	231 1/2	117.90
58 1/2	232 1/2	118.40
58 3/4	233 1/2	118.90
59	234 1/2	119.40
59 1/4	235 1/2	119.90
59 1/2	236 1/2	120.40
59 3/4	237 1/2	120.90
60	238 1/2	121.40
60 1/4	239 1/2	121.90
60 1/2	240 1/2	122.40
60 3/4	241 1/2	122.90
61	242 1/2	123.40
61 1/4	243 1/2	123.90
61 1/2	244 1/2	124.40
61 3/4	245 1/2	124.90
62	246 1/2	125.40
62 1/4	247 1/2	125.90
62 1/2	248 1/2	126.40
62 3/4	249 1/2	126.90
63	250 1/2	127.40
63 1/4	251 1/2	127.90
63 1/2	252 1/2	128.40
63 3/4	253 1/2	128.90
64	254 1/2	129.40
64 1/4	255 1/2	129.90
64 1/2	256 1/2	130.40
64 3/4	257 1/2	130.90
65	258 1/2	131.40
65 1/4	259 1/2	131.90
65 1/2	260 1/2	132.40
65 3/4	261 1/2	132.90
66	262 1/2	133.40
66 1/4	263 1/2	133.90
66 1/2	264 1/2	134.40
66 3/4	265 1/2	134.90
67	266 1/2	135.40
67 1/4	267 1/2	135.90
67 1/2	268 1/2	136.40
67 3/4	269 1/2	136.90
68	270 1/2	137.40
68 1/4	271 1/2	137.90
68 1/2	272 1/2	138.40
68 3/4	273 1/2	138.90
69	274 1/2	139.40
69 1/4	275 1/2	139.90



# RUBBER - LEATHER - CANVAS BELTING OF QUALITY

Our three kinds, Rubber, Leather and Canvas Belting, are the product of old, reliable manufacturers; those who have won an enviable reputation as makers of thoroughly high grade, reliable goods. We permit no cheapening in the process of manufacturing. Each grade is exactly as represented, and our prices, quality considered, are remarkably low. We carry a large stock and make prompt shipments. We save you 25 to 50 per cent, and MAINTAIN the QUALITY.

## RUBBER BELTING

We handle two reliable grades of Rubber Belting, our STANDARD and EXTRA STANDARD grades. Made of strong cotton duck with rubber outer coatings. We do not handle the cheap competition grades, as their use is not economical. Our Standard grade is a very good quality, but we do not recommend it for extremely heavy work. It is sold by many dealers as best grade and gives good satisfaction on light farm machinery, etc. Standard grade should not, however, be used as a Thresher Belt with the expectation that it will give satisfaction. Canvas Belting or our Extra Standard Rubber Belting is better for that purpose. Our Extra Standard Belt is one of the best articles for the price on the market, and suitable for hard service. It can be used as a thresher belt with perfect satisfaction.

### STANDARD GRADE

83B5680—2-Ply. Wt. ft., 1 to 4 oz.	
Width, in. . . . . 1 1/4 1 1/2 2	
Per foot . . . . . 3 3/4 4 5 7	
Width, in. . . . . 2 1/2 3 3 1/2 4	
Per foot . . . . . 8 1/2 10 11 13	
83B5681—3-Ply. Wt. ft., 3 to 9 oz.	
Width, in. . . . . 1 1/4 1 1/2 2	
Per foot . . . . . 6 7/8 9 12	
Width, in. . . . . 3 3/4 4 5 6	
Per foot . . . . . 14 15 19 23	
83B5682—4-Ply. Wt. ft., 6 to 24 oz.	
Width, in. . . . . 3 3/4 4 4 1/2 5	
Per foot . . . . . 14 16 19 21	
Width, in. . . . . 5 6 7 8	
Per foot . . . . . 23 27 32 36	
Width, in. . . . . 9 10 11 12	
Per foot . . . . . 41 45 53	

### EXTRA STANDARD GRADE

83B5683—2-Ply. Wt. ft., 1 to 5 oz.	
Width, in. . . . . 1 1/4 1 1/2 2	
Per foot . . . . . 4 1/2 5 6 8	
Width, in. . . . . 2 1/2 3 3 1/2 4	
Per foot . . . . . 9 11 13 14	
83B5684—3-Ply. Wt. ft., 3 to 14 oz.	
Width, in. . . . . 1 1/4 1 1/2 2	
Per foot . . . . . 6 7/8 9 12	
Width, in. . . . . 3 3/4 4 5 6	
Per foot . . . . . 17 22 26 30 34	
83B5685—4-Ply. Wt. ft., 6 to 27 oz.	
Width, in. . . . . 3 3/4 4 4 1/2 5	
Per foot . . . . . 16 18 21 24	
Width, in. . . . . 5 6 7 8	
Per foot . . . . . 26 31 36 41	
Width, in. . . . . 9 10 11 12	
Per foot . . . . . 46 51 60	

## LEATHER BELTING



We have two good grades of Leather Belting. Standard and Extra Standard. We do not sell the very cheap Competition or Agricultural grades, which are never satisfactory and always dear at any price.

Our Standard Belting is a good medium quality, made up to 4 in. wide. Suitable for ordinary mill, factory and farm machinery purposes, and for this service will give good satisfaction.

Extra Standard Leather Belting is made from selected, short lap, oak tanned stock, cut from the center of the hide. It is recommended for thresher belts, high speed pulleys, and for hard factory or mill usage. It is the best leather belting in the market for the money. Quality always of the best.

Notice—Do not run leather belts in very damp or wet places, but use rubber or stitched canvas belting under such conditions.

### 83B5704—STANDARD GRADE.

Width, in. . . . . 1 1/4 1 1/2 2	
Per foot . . . . . 7 9 11 12 14	
Width, in. . . . . 2 1/2 3 3 1/2 4	
Per foot . . . . . 16 18 21 25 28	

### 83B5705—EXTRA STANDARD GRADE.

Width, in. . . . . 1 1/4 1 1/2 2	
Per foot . . . . . 9 11 13 15 18	
Width, in. . . . . 2 1/2 3 3 1/2 4	
Per foot . . . . . 20 22 24 26 31	
Width, in. . . . . 4 5 6 7 8	
Per foot . . . . . 35 40 44 48 52 68 77	

## CANVAS BELTING

**BEST QUALITY—FULL WEIGHT**  
Our Stitched Canvas Belting is unaffected by atmospheric changes, uninjured by water or steam, and may be subjected to a degree of heat that would be ruinous to other belting. It is therefore the best belting for outdoor use and for damp or hot places. Made of special long fibre cotton duck, carefully and closely stitched. Thoroughly stretched and inspected. Thoroughly saturated in oil, which makes it permanently water-proof and flexible. Painted with a special red paint which gives the belt an excellent, non-slipping surface. Always remains flexible in hot or cold weather.

### FOUR-PLY

Wt. per ft., 2, 3, 4, 5, 6, 8, 10, 11, 13, 15, 17 oz.	
83B5690—Four-Ply Belting.	
Width, in. . . . . 1 1/4 2 2 1/2 3	
Per foot . . . . . 5 6 6 1/2 8 10	
Width, in. . . . . 3 3 1/2 4 5 6	
Per foot . . . . . 11 12 14 17	
Width, in. . . . . 7 8 9 10 12	
Per foot . . . . . 20 22 25 28 33	

### SIX-PLY

Wt. per ft., 6, 8, 10, 12, 14, 16, 19, 22, 25 oz.	
83B5692—Six-Ply Belting.	
Width, in. . . . . 3 4 5	
Per foot . . . . . 15 18 22	
Width, in. . . . . 5 6 8	
Per foot . . . . . 25 30 33	
Width, in. . . . . 9 10 12	
Per foot . . . . . 38 42 50	

## ENDLESS CANVAS THRESHER BELTS

Our Stitched Canvas Thresher Belts are made from especially prepared, strong, heavy cotton duck, thoroughly stretched. Saturated in oil and sewed from end to end under heavy tension, making a very strong yet always pliable and water-proof fabric. Painted with a special red paint which gives the belt an excellent non-slipping surface. Not affected by water, heat, steam or atmospheric changes. Especially adapted for threshers, saw mills, and similar severe uses. Each belt is made endless at the factory, and as it requires three feet to make the lap, therefore, each belt will measure just three feet short. For example, the actual net length of a 100-ft. belt will be 97 ft. We carry the following standard lengths in stock and can make prompt shipment: 80, 100, 120, 130, 140, 150, 160 ft. (Actual lengths are 3 ft. less than given.) Special lengths and sizes, other than here listed, have to be made to order at factory and usually cause a delay of two to three weeks. For such sizes, always include the price of 3 ft. extra to cover cost of lap and labor.

### FOUR-PLY

Number	Width	Wt., Foot	Price, Foot
183B5693	6 in.	11 oz.	16c
183B5694	7 in.	12 oz.	19c
183B5695	8 in.	14 oz.	22c

### FIVE-PLY

Number	Width	Wt., Foot	Price, Foot
183B5696	6 in.	12 oz.	21c
183B5697	7 in.	14 oz.	24c
183B5698	8 in.	16 oz.	28c

## BELT LACING, GLUE AND DRESSING

### RAWHIDE SIDE LACE



83B5722—Made of best grade hides. Tough and durable. Can supply only in full sides.	
Size About	Wt. About
10 sq. ft.	2 1/2 lbs.
12 sq. ft.	3 1/2 lbs.
15 sq. ft.	4 1/2 lbs.
18 sq. ft.	5 1/2 lbs.

### RAWHIDE CUT LACE

83B5719—Standard Quality. In full bundles of 50 lineal feet.	
Width, in. . . . . 3/4 1 1 1/2 2	
Wt., oz. . . . . 5 8 10 12	
Bundle . . . . . \$0.38 \$0.50 \$0.60	
Width, in. . . . . 2 2 1/2 3 3 1/2 4	
Wt., oz. . . . . 10 14 18 22 26	
Bundle . . . . . \$0.75 \$1.00 \$1.25	
83B5721—Assorted package of 100 ft. cut lace leather. Consisting of 25 feet each, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.	
Per bundle . . . . . \$1.10	

### CHROME SIDE LACE



83B5720—Extra strong and durable. Soft and pliable. Not affected by heat, water or acid. Can supply only in full sides.	
Size About	Wt. About
8 sq. ft.	1 1/2 lbs.
10 sq. ft.	2 1/2 lbs.
12 sq. ft.	3 1/2 lbs.

### CHROME CUT LACE

83B5724—Same Quality as side lace leather listed above. In full bundles of 50 lineal feet.	
Width, in. . . . . 3/4 1 1 1/2 2	
Wt., oz. . . . . 5 8 10 12	
Bundle . . . . . 37c 45c 54c 68c 85c \$1.10	

### WIRE BELT LACING

Made from a composition wire. Will not cut the belt or tear out the lace holes. Excellent where belts are speeded or run with idlers. On spools containing 50 ft. Weight, 9 oz.	
83B5728—Size 1. For belts up to 6 in. wide.	30c
83B5729—Size 2. For belts 6 in. and wider.	30c

### WIRE BELT LACING

83B5731—Soft, strong composition wire. For high speed, heavy duty belts. In coils of about 50 ft. Wt., about 6 oz.	
Size 1. For belts 1 to 6 in. For coil . . . . . 15c	
Size 2. For belts, 6 to 10 in. For coil . . . . . 16c	

### GRASPIT BELT DRESSING

A liquid dressing that contains no resin, acids, or mineral oils. Used by many of the largest manufacturers. Will put new life in belting, make it soft and pliable, and prevent slipping. Gives satisfaction. 9 lbs. per gallon, 9 lbs. per

Three kinds—all the same price.

83B5712—For Leather Belts.

83B5713—For Canvas Belts.

83B5714—For Rubber Belts.

1 Gallon can . . . . . \$2.60

2 Quart can . . . . . 1.40

1 Quart can . . . . . .75

### BELT LACE CUTTER

83B5723—Cast iron frame. Steel knife. For cutting leather into strips. Adjustable to various widths. Weight, 3 1/2 lbs.

Each . . . . . \$2.20

### COTTON WASTE

Machinery Waste. Note our handy 5 and 10 pound packages. Prices subject to market changes.

83B5785—Colored. For 5-pound package . . . . . 38c

10-lb. pkg. . . . . \$6.75

83B5786—White. No. 1. Machine copped.

Per 5-lb. package . . . . . \$0.65

For 10-lb. package . . . . . 1.20

Per 100-lb. bale . . . . . 11.75

### STEEL BELT LACING

83B5732—Strong and quickly clinched. In boxes of 100 lineal in. Assorted lengths, 1 1/4 to 2 3/4 in. Wt., 1 1/2, 2, 3 lbs.

Size 1. For single leather belts. Width, 1/4 in. Per box . . . . . 46c

Size 1 1/4. For 3-ply rubber belts. Width, 1/4 in. Per box . . . . . 58c

Size 1 1/2. For 4-ply belts. Width, 1/4 in. Per box . . . . . 72c

Size 1 3/4. For 5-ply belts. Width, 1/4 in. Per box . . . . . \$1.10

Size 2. For 6-ply belts. Width, 1/4 in. Per box . . . . . \$1.10

### STEEL BALL BELT COUPLER

83B5733—Fastened with bifurcated rivets. Connected by steel ball spindles. In boxes of 96 lineal inches. In 12 in. pieces, easily cut. With spindles, rivets, gauge and rivet holder.

Size A. For 3/4 in. belt. Wt., 12 lbs. Per box . . . . . \$9.00

Size B. For 1 inch belt. Wt., 12 lbs. Per box . . . . . \$1.10

Size C. For 1 1/4 inch belt. Wt., 12 lbs. Per box . . . . . \$1.35

### STEEL CLINCH BELT HOOKS

Made of best annealed steel wire. Will not break in clinching. For leather, rubber or canvas belting. In boxes containing 200 hooks.

No.	Size	Prong Length	Length	Weight	Per box
83B5740	0	1/4 in.	3/4 in.	7 oz.	10c
83B5741	1	1/2 in.	1 in.	10 oz.	10c
83B5742	2	3/4 in.	1 1/4 in.	1 lb.	12c
83B5743	3	1 in.	1 3/4 in.	1 1/4 lb.	12c

### CORN WEEVIL PREVENTIVE

By painting the inside of corn cribs and granaries with our Wood Preservative, you will prevent damage to the grain by the corn weevil. Wood Preservative is a strong, but harmless disinfectant. Insects cannot exist where it is used.

### LAKESIDE BELT DRESSING

83B5710—Our Lakeside stick belt dressing is suitable for all kinds of belts, prevents slipping, and keeps the belt soft and pliable. Applied to the moving belt by friction. Is economical and contains nothing injurious to the belt. In 1 lb. paper covered sticks. Each . . . . . \$1.50

### LEATHER BELT CEMENT

83B5734—Cholice quality. For repairing leather belts, making endless, etc. To be heated in double vessel until thin, and applied to the surface of the leather. Leather should first be washed with hot water. In 1-lb. cans with directions. Each . . . . . 65c

### CANVAS PULLEY COVERING

Can be applied to any pulley and effectively prevents the belt from slipping. Will last for many years. Each outfit is packed complete in wooden box and consists of canvas 36 in. wide, cement for applying, brush for cleaning pulley, brush and scraper for applying the cover.

83B5745—For 10 sq. ft. pulley surface. Wt., 6 lbs. . . . . \$2.10

83B5746—For 17 square feet pulley surface. Wt., 12 lbs. . . . . \$3.45

### SMOKY CITY PACKING

83B5765—Made of all cotton stock, well lubricated with graphite compound. Has an elastic rectangular center of pure rubber. For steam use. Feet in a lb., 21, 11. 6 Sizes: 1/4, 3/8, 1/2, 3/4, 1, 1 1/2. Oval shape. Give size. Per lb. . . . . 24c

### STEEL SCRAPING TOOLS

83B5752—For scraping valves, babbitt metal, journals, bearings, etc. Set of six tools. Made of tool steel, carefully forged, tempered and polished. In convenient oak case. Lengths, 10 1/2 in. to 17 1/2 in. Weight, 5 1/2 lbs. Per set . . . . . \$2.10

### SPEED INDICATORS AND HAND COUNTERS

#### STARRETT'S SPEED INDICATORS

Frictionless bearing. Two rows of figures reading right or left. Nickel-plated iron. Rubber tips. Size, 5 1/2 in. Weight, 5 oz.

85B1858—With Iron handle. Each . . . . . 83c

85B1859—With rosewood handle. Each . . . . . \$1.19

85B1860—Leatherette Case. 3 oz. Each . . . . . 40c

#### IMPROVED SPEED INDICATOR

85B1862—Goodell Pratt's make. Has two dials. One records the units, one the hundreds. Dial for hundreds has friction ratchet and is quickly reset. Double end spindle. Handle slips on either end for right or left hand shafts. Steel, nickel-plated. Two rubber tips. Weight, about 6 oz. Each. \$1.75

#### TALLYING REGISTER OR COUNTING MACHINE

85B1855—Tallies from 1 to 1,000 by pressing with the thumb. Can be set at zero at will. Used for checking ties, telegraph poles, passengers, freight, cattle, etc. Glass dial. Nickel-plated. Wt., 4 oz. Each. . . . . \$2.25

### SQUARE FLAX PACKING



83B5760—Long fibre flax. Well lubricated. Used in pumps and hydraulic elevators. Sizes, 1/4, 3/8, 1/2, 3/4, 1 in. Ft. in a lb., 36, 18, 10 and 4. Give size. Per lb. . . . . 22c

### RUBBER CORE PACKING

Made of the best hemp and flax, well lubricated. It has a center core of pure rubber. Absolutely steam tight. Made in two shapes, round and oval. Sizes, 1/4, 3/8, 1/2 in. Ft. in a lb., 37, 20 1/2, 9 1/2. Per lb. . . . . 24c

83B5762—Round shape. Give size. Ft. in a lb., 37, 20 1/2, 9 1/2. Per lb. . . . . 24c

83B5763—Oval shape. Give size. Ft. in a lb., 23, 14, 8. Per lb. . . . . 25c

### RED RUBBER PACKING

83B5771—Will not harden under extreme heat. In rolls 36 in. wide. We do not cut rolls lengthwise, but can furnish any quantity 1 yd. wide. Thickness, 1/2 to 3/4 in. Approximate weight, per sq. yd., 5 1/2 to 24 lbs. Per lb. . . . . 43c

### RAINBOW SHEET PACKING

83B5772—In rolls 36 in. wide. We do not cut rolls lengthwise, but can furnish any quantity 1 yd. wide. Thickness, 1/2 to 3/4 in. Average wt., per sq. yd., 5 1/2 to 24 lbs. Color, red. Per lb. . . . . 68c

### STEEL PACKING TOOLS

A Necessity in Every Engine Room

83B5750—Set of six tools. Nickel plated. Will go in any valve rod, pump, or engine stuffing box. Assorted lengths, 6 1/2 in. to 18 in. Weight, 13 oz. Per set . . . . . \$1.20

### GARLOCK PACKING



83B5766—Genuine Garlock Spiral Packing. So well known as to require no comment. Made of very best stock and gives universal satisfaction. Coils of 12 feet. We furnish in any quantity. Size, in. . . . . 1/4 3/8 1/2 3/4 1 1 1/2 2 2 1/2 3 4 5 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100. Give size wanted. Per lb. . . . . 95c

### SHEET RUBBER PACKING

83B5770—With cloth insertion. A tough, durable packing of a good standard grade. In rolls 36 in. wide. We do not cut the rolls lengthwise, but can furnish any quantity 1 yard wide.

Thickness Approx. wt. per sq. yd. Per lb.

1/4 in. 6 1/2 lbs. 15c

3/8 in. 9 1/4 lbs.

1/2 in. 12 1/2 lbs.

3/4 in. 20 lbs.

1 in. 24 lbs.

### RED RUBBER PACKING

83B5771—Will not harden under extreme heat. In rolls 36 in. wide. We do not cut rolls lengthwise, but can furnish any quantity 1 yd. wide. Thickness, 1/2 to 3/4 in. Approximate weight, per sq. yd., 5 1/2 to 24 lbs. Per lb. . . . . 43c

### RAINBOW SHEET PACKING

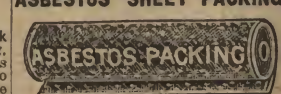
83B5772—In rolls 36 in. wide. We do not cut rolls lengthwise, but can furnish any quantity 1 yd. wide. Thickness, 1/2 to 3/4 in. Average wt., per sq. yd., 5 1/2 to 24 lbs. Color, red. Per lb. . . . . 68c

### STEEL PACKING TOOLS

A Necessity in Every Engine Room

83B5750—Set of six tools. Nickel plated. Will go in any valve rod, pump, or engine stuffing box. Assorted lengths, 6 1/2 in. to 18 in. Weight, 13 oz. Per set . . . . . \$1.20

### ASBESTOS SHEET PACKING





EASY ACTING

## IRON WELL PUMPS

STRONG, DURABLE

We offer you here a line of pumps that are properly constructed, strong, substantial and durable.

Our pumps are made of the very best material, smooth castings, nicely finished and painted, and intended for long continued use. Easy to install. The necessary parts of a pump are the Pump Standard or Stock; the Cylinder with its plunger valve and its lower check valve; the Suction Pipe and the Plunger or Connecting Rod.

The cylinder or working barrel of a pump should never be more than 25 to 28 feet from the surface of the water, or else it will not operate.

A Suction Lift Pump is one that raises the water to the level of the pump spout.

A Force Pump is one that raises the water to the pump, and also forces it to any reasonable altitude above the level of the pump.

A Set-Length Pump is a pump standard fitted with 4 ft. of pipe and a cylinder (see 183B5800, etc.), and such a pump is ready for use in a well not exceeding 30 ft. in depth. It is only necessary to screw on the requisite amount of pipe to the bottom end of the cylinder. For instance, if the well is 30 ft. deep, you will need 26 ft. of pipe, as the cylinder and set-length will take up 4 ft. of the distance.

The object in putting the cylinder at the end of 4 ft. set-length is to place the cylinder below the frost line. A small drip hole (about 1/8 in.) is drilled in the pipe just above the cylinder, which drains off the set-length and thereby makes the pump anti-freezing.

For wells deeper than 30 feet it will be necessary to use a Pump Standard (see 183B5850), and then fit the cylinder down within at least 25 ft. of the water;

or better still, place the cylinder beneath the surface of the water, as this will always insure an easy acting outfit and the pump will never need priming.

## Fitting Pumps Complete.

For fitting pumps complete ready to put in the well, we make a nominal charge to cover the cost of steel plunger rod and the labor involved, as follows: For fitting cylinder down 10 ft. or less, 50c; for each additional foot, 5c per foot. Please note that this charge for fitting does not include the suction pipe. Pipe is always charged extra, depending upon the size and kind wanted.

## Example.

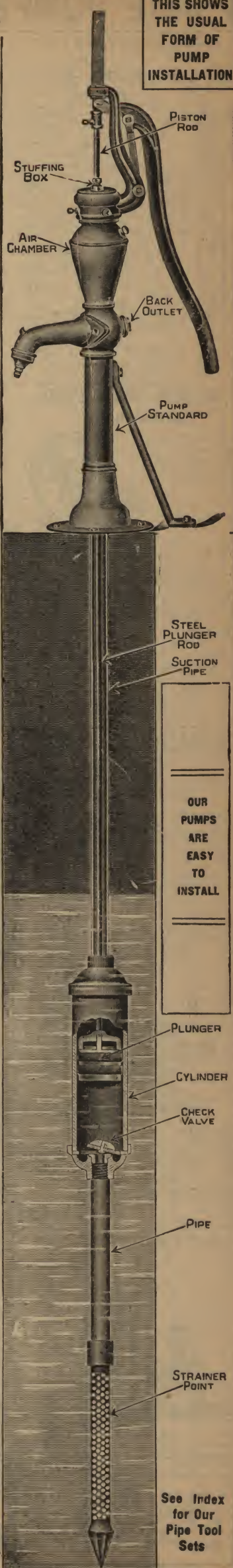
Pump Outfit, fitted complete, ready for well 120 ft. deep with 30 ft. of water in the well. (For prices see below.)

183B5850—1 Pump, 6 in. stroke, 1 1/4 in. pipe size...  
183B5966—1 Brass Body Cylinder, 3x10x1 1/4.....  
183B5602—120 ft. 1 1/4 Galvanized Pipe.....  
Labor and Rod, fitting cylinder down about 100 ft. at 5c per ft.....

Total.....  
You can of course use any of our pump standards, cylinders or pipe.

When ordering, please state depth of well, and how far down you wish cylinder placed, otherwise we shall use our own judgment in fitting.

We furnish Estimates for complete pump outfits on request. When writing for prices please give depth of well; state whether an open or a drilled well; the distance from platform to surface of the water; and whether you wish a lift or a force pump.



THIS SHOWS  
THE USUAL  
FORM OF  
PUMP  
INSTALLATION

OUR  
PUMPS  
ARE  
EASY  
TO  
INSTALL

See Index  
for Our  
Pipe Tool  
Sets

**ANTI-FREEZING LIFT PUMP**  
**\$2.75**

183B5800—Anti-freezing well pump with a 4-ft. set length. A medium weight, well made pump for wells not over 30 ft. deep. For deeper wells we suggest the use of one of our heavier pumps as shown on this page. Has a 3x10-inch iron cylinder with wrought iron set length and steel rod. Stroke, 6 in. Fitted for 1 1/4 in. suction pipe. Made in one size only. Shipping weight, 55 lbs.

Each.....\$2.75

**ANTI-FREEZING LIFT PUMP**  
**\$3.05**

Heavy Pattern anti-freezing well pump, with 4-ft. set length. A good durable pump for wells up to 30 ft. deep. For deeper wells order our pump standard, with cylinder and pipe as explained at top of this page. The set length is wrought iron and connected under spout. Prices are for pump with iron cylinder. Stroke, 6 in. Average ship. wt., 63 to 75 lbs.

183B5804—Cylinder, 2 1/2 in.; for pipe 1 1/4 in. Each.....\$3.05

183B5805—Cylinder, 3 in.; for pipe 1 1/2 in. Each.....\$3.10

183B5806—Cylinder, 3 1/2 in.; for pipe 1 1/2 in. Each.....\$3.40

183B5807—Cylinder, 4 in.; for pipe 2 in. Each.....\$4.10

**ANTI-FREEZING HAND FORCE PUMP**  
**\$4.95**

Heavy Force Pump, with air chamber in top of stock and a 4 ft. set length. Has a brass stuffing box, polished piston and is substantially made throughout. For wells up to 30 ft. deep.

Prices are for pumps with iron cylinders. Stroke, 6 in. Complete with 3/4 in. hose connection. Back of spout is tapped for 1 1/4 in. pipe. Average ship. wt., 80 to 95 lbs.

183B5810—Cylinder, 2 1/2 in.; for pipe 1 1/4 in. Each.....\$4.95

183B5811—Cylinder, 3 in.; for pipe 1 1/2 in. Each.....\$5.10

183B5812—Cylinder, 3 1/2 in.; for pipe 1 1/2 in. Each.....\$5.35

183B5813—Cylinder, 4 in.; for pipe 2 in. Each.....\$6.00

**ANTI-FREEZING LIFT PUMP**  
**\$4.10**

With 4 ft. set length. A substantial pump for windmill or hand use. Adapted for either open or dug wells up to 30 feet in depth. For deeper wells order our pump standard with cylinder and pipe, as explained at top of this page. Prices are with iron cylinder. Stroke, 6 in. Average ship. wt., 70 to 80 lbs.

183B5820—Cylinder 2 1/2 in.; for pipe 1 1/4 in. Each.....\$4.10

183B5821—Cylinder 3 in.; for pipe 1 1/2 in. Each.....\$4.20

183B5822—Cylinder 3 1/2 in.; for pipe 1 1/2 in. Each.....\$4.40

183B5823—Cylinder 4 in.; for pipe 2 in. Each.....\$5.00

**ANTI-FREEZING FORCE PUMP WINDMILL TOP**  
**\$6.45**

With 4 ft. set length. For wells up to 30 ft. deep. Has cock spout with 1/2 in. hose coupling so that water can be forced in tank or discharged at spout. Back of spout tapped for 1 1/4 in. pipe. Stroke, 6 in. Average ship. wt., 85 to 90 lbs.

183B5828—Cylinder, 2 1/2 in.; for pipe 1 1/4 in. Each.....\$6.45

183B5829—Cylinder, 3 in.; for pipe 1 1/2 in. Each.....\$6.60

183B5830—Cylinder, 3 1/2 in.; for pipe 1 1/2 in. Each.....\$6.75

183B5831—Cylinder, 4 in.; for pipe 2 in. Each.....\$7.50

**LIFT PUMP STANDARD**  
**\$2.15**

183B5840—Pump Standard only, for wells of moderate depth. This standard can be fitted with iron or brass cylinder and wrought pipe, which will make an excellent outfit where a force pump is not needed. Stroke, 6 in. Same as our 183B5804, but without set-length or cylinder. Price does not include cylinder and pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. For further information regarding cylinder and pipe, see explanation at top of this page.

This pump, and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wt., 4 lbs. Each.....\$2.15 (Give pipe size wanted.)

**LIFT PUMP STANDARD WINDMILL TOP**  
**\$3.35**

A good lift pump standard fitted with windmill top, but also makes a first-class hand pump. It is the same as our 183B5820, etc., without the cylinder and set-length. Strong enough for wells up to 100 ft. deep. Has very high spout. Long handle on adjustable cap. Prices do not include cylinders or pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. This and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wt., about 60 lbs.

183B5842—With 6 in. set. ck. Each.....\$3.35

183B5843—With 10 in. stroke. Each.....\$3.80 (Give pipe size wanted.)

**LIFT PUMP STANDARD FOR HAND OR WINDMILL**  
**\$2.95**

A substantial lift pump standard, that may be used as a hand pump, or in connection with a windmill. Made in two sizes of stroke. Strong enough for wells up to 100 ft. deep. Has regular spout with good size openings. Prices do not include cylinders or pipe. Fitted for 1 1/4, 1 1/2, or 2 in. pipe. This pump and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wts., 52 and 60 lbs.

183B5848—With 6 in. stroke. Each.....\$2.95

183B5849—With 10 in. stroke. Each.....\$3.40 (Give pipe size wanted.)

**FORCE PUMP STANDARD WINDMILL TOP**  
**\$4.35**

Force Pump for windmill or hand use. Bolted top cap. Extra large solid piston rod. A strong, durable pump and a great favorite. For wells up to 100 feet deep. Prices do not include cylinder and pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. With 3/4 in. hose connection at spout. Back of spout tapped for 1 1/4 in. pipe. This pump and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wts., 64 and 71 lbs.

183B5850—Stroke 6 in. Each.....\$4.35

183B5851—Adjustable stroke. Each.....\$4.80 (Give pipe size wanted.)

**FORCE PUMP STANDARD WINDMILL TOP**  
**\$4.95**

Has long oscillating fulcrum link, pivoted at base instead of at the top. This relieves the cap from strain, eliminating danger from breaking and making a very strong pump which will give excellent service. For wells up to 100 ft. deep. Back of spout tapped for 1 1/4 in. pipe. Prices do not include cylinder or pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. With 3/4 in. hose coupling on spout. This pump and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any position. Ship. wts., 66 and 75 lbs.

183B5854—Stroke 6 in. Each.....\$4.95

183B5856—Stroke 10 in. Each.....\$5.40 (Give pipe size wanted.)

**FORCE PUMP STANDARD WINDMILL TOP**  
**\$4.35**

A neat, solid and compact force pump standard. Same as our 183B5828, but without cylinder set-length. For wells up to 100 ft. deep. Prices do not include cylinder or pipe. Fitted for 1 1/4, 1 1/2 or 2 in. pipe. Spout has 3/4 in. hose connection. Back is tapped for 1 1/4 in. pipe. Shipping weight, 63 to 74 lbs. Furnished with either plain or faucet spout.

With Plain Spout  
183B5858—Stroke 6 in. Each.....\$4.35

183B5859—Stroke 10 in. Each.....\$4.80

With Cock Spout  
183B5860—Stroke 6 in. Each.....\$5.15

183B5861—Stroke 10 in. Each.....\$5.60 (Give pipe size wanted.)

**HEAVY FORCE PUMP STANDARD WINDMILL TOP**  
**\$7.00**

For windmill or hand use. Extra strong for any depth well. Large air chamber on spout with top outlet. Spout is fitted with 1 in. hose coupling. Top of air chamber is tapped for 1 1/4 in. iron pipe. Prices do not include cylinder or pipe. This pump standard should be used with large cylinder, or where water is to be forced some distance. Fitted for 1 1/2 or 2 in. iron pipe. For further information regarding cylinder and pipe, see explanation at top of this page. This pump, and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wt., 90 lbs.

183B5865—With 6 in. stroke. Each.....\$7.00

183B5866—With 10 in. stroke. Each.....\$7.50 (Give pipe size wanted.)

**GEARED PUMP STANDARD WINDMILL TOP**  
**\$3.90**

An easy acting pump standard of large capacity. Strong and substantial. One of the easiest working pumps on the market. The geared handle head working in cogs on slide bar, gives a direct leverage. Roller at back edge of sliding bar, lessens the friction. Suitable for wells up to 100 ft. deep. Stroke, 6 in. Fitted for 1 1/4, 1 1/2, or 2 in. pipe. Price is for Pump Standard only. Order pump cylinder-pipe and pump rod extra. In two styles. Lift or Force pump. Shipping weight, 66 and 70 lbs.

183B5863—Lift Pump Standard as above. Each.....\$3.90

183B5864—Force Pump Standard as above. Tapped at back of spout for 1 1/4 in. pipe, with 3/4 in. hose coupling. Each.....\$4.70 (Give pipe size wanted.)

**HEAVY-LIFT PUMP STANDARD WINDMILL TOP**  
**\$4.95**

Heavy lift pump standard with extra large spout, designed for a stock pump or where large amount of water is required. Suitable for wells up to 100 ft. deep. The spout has a full 2-in. opening, and the body is large in proportion. Tapped for 2-in. or 2 1/2-in. suction pipe. Prices do not include cylinder or pipe. For further information regarding cylinder and pipe, see explanation at top of this page. This pump, and all pumps on this page have revolving cap, held by set screw, which permits the handle to be turned in any desired position. Ship. wt., 83 and 88 lbs.

183B5846—Stroke, 6 in. Each.....\$4.95

183B5847—Stroke, 10 in. Each.....\$5.50 (Give pipe size wanted.)



# FORCE PUMPS, KITCHEN PUMPS, RAMS AND PUMP ACCESSORIES

## DOUBLE ACTING FORCE PUMP

**183B5970**—Anti-freezing pump for wells not exceeding 30 ft. in depth. Will throw a steady stream and is easy of operation. Solid and substantial in construction. Small upper cylinder of brass. Can be furnished with a three-way cock if desired, for conducting water underground to a tank. Prices are for pumps complete with galvanized, 7 ft. set length, 3/4 in. hose coupling and cylinder. Average shipping weight, 105 lbs. Width of set length, about 8 in.

Size	Size of Cylinder in	For Pipe in	With Iron Cylinder	With Brass Lined Cylinder
1	3 1/2	1 1/2	\$8.20	\$9.40
2	3 3/4	1 3/4	9.00	10.20

Notice—If wanted with three-way cock, add \$1.50 to above prices.

## DOUBLE ACTING FORCE PUMP

Windmill Top. (Stroke 6 in.) **183B5872**—Anti-freezing Pump. For wells not over 30 ft. in depth. Will throw a steady stream. Easy to operate and substantially constructed. Small upper cylinder of brass. Can be furnished with a lower three-way cock if it is desired to conduct water underground to a tank. Prices are for pumps complete with 7 ft. galvanized set-length cylinder and 3/4 in. hose coupling. Average shipping weight, 115 lbs. Width of set-length, about 8 inches.

Size	Size of Cylinder in	For Pipe in	With Iron Cylinder	With Brass Lined Cylinder
1	3 1/2	1 1/2	\$8.90	\$10.10
2	3 3/4	1 3/4	9.70	10.85

Notice—If wanted with lower three-way cock, add \$1.50 to above prices.

## WINDMILL FORCE PUMP

Anti-freezing Pump. With improved vertical distributing valve. Can be used in wells of any depth. The distributing lower valve is operated the same as an ordinary globe valve, and by turning wheel handle the water may be directed through the underground pipe to water supply system or elevated storage tank, distant stock watering trough, etc.

Price includes pump standard only, with extension bell pump base including three-way valve as shown. Spout of pump is fitted with 3/4 in. hose coupling. Pump is tapped for 1 1/4 in. discharge pipe and 1 1/4, 1 1/2, or 2 in. suction pipe. Size of suction pipe determined by size of cylinder. Length, from platform to lower elbow, 4 ft. 10 in. Average shipping wt., 100 pounds.

**183B5875**—With 6 in. stroke. Each .....\$8.10

**183B5876**—With 10 in. stroke. Each .....\$8.60

## DOUBLE ACTING FORCE PUMP

THREE WAY VALVE  
Windmill Top

Complete with upper and lower cylinders. Has a quick acting cam lever shifting device, and lower three way valve. Water can be forced through underground pipe to storage tank or from the spout as desired. The upper cylinder is of drawn brass tubing. Has a large waterway and a spacious air chamber, and will work easily against heavy pressure. With 6 in. stroke, and hose coupling on spout. Average shipping weight, 81 to 85 lbs.

**183B5880**—With 3 in. Iron Cylinder for 1 1/4 in. Pipe. Each .....\$7.60

**183B5881**—With 3 1/4 in. Iron Cylinder for 1 1/4 in. Pipe. Each .....\$8.10

**183B5882**—With 3 in. Brass lined Cylinder for 1 1/4 in. Pipe. Each .....\$8.15

**183B5883**—With 3 1/4 in. Brass lined Cylinder for 1 1/4 in. Pipe. Each .....\$8.60

We can fit this pump complete for any depth well by adding the cost of pipe and 5c foot extra for plunger rod and labor.

## CONTRACTORS' DIAPHRAGM PUMPS

For pumping water from mines, stone quarries, cellars, ditches, and for irrigation purposes, where the water is not more than 20 ft. (vertically) from pump. Will easily handle large quantities of sewage, mud, sand and gravel, etc. Extra heavy, with best grade rubber diaphragms. With heavy wrought-iron handle. Illustration shows Bottom Suction.

**183B5940**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$8.75

**183B5941**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$12.90

**183B5942**—Size 2. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5943**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5944**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5945**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5946**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5947**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5948**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5949**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5950**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5951**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5952**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5953**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5954**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5955**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5956**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5957**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5958**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5959**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5960**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5961**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5962**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5963**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5964**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5965**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5966**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5967**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5968**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5969**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5970**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5971**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5972**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5973**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5974**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5975**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5976**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5977**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5978**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5979**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5980**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5981**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5982**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5983**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5984**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5985**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5986**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5987**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5988**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5989**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5990**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5991**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5992**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5993**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

**183B5994**—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/4 in. iron pipe or hose. Ship. wt., 75 lbs. Each .....\$9.36

**183B5995**—Size 2. Capacity per stroke, 1 1/2 gals. Takes 3 in. iron pipe or hose. Ship. wt., 150 lbs. Each .....\$13.60

## PITCHER SPOUT PUMP

### STANDARD TYPE

Heavy and substantially built. For cisterns and wells not over 20 ft. deep. The cylinder is bored out and reamed smooth. Delivers a large volume of water with little exertion. Top is closed to prevent splashing. To prevent freezing, raise handle to its extreme height. This will trip the valve and water will drain off. **183B5910**—Size 1. Bore, 2 1/2 in. For 1 1/4 in. iron pipe. Shipping weight, 20 lbs. Each .....\$3.00

**183B5911**—Size 2. Bore, 3 in. For 1 1/4 in. iron pipe. Shipping weight, 22 lbs. Each .....\$1.08

**183B5912**—Size 3. Bore, 3 1/2 in. For 1 1/4 in. iron pipe. Shipping weight, 28 lbs. Each .....\$1.25

**183B5913**—Size 4. Bore, 4 in. For 1 1/4 in. iron pipe. Shipping weight, 30 lbs. Each .....\$1.42

## KITCHEN FORCE PUMP

**183B5915**—This pump differs from our Pitcher Spout Pump, being a force pump. By connecting pipe to top outlet, water may be pumped to elevated storage tank in attic or elsewhere; or it may be drawn off at sink by opening faucet on pump, as preferred. Pump is very strongly built, and well finished. Cylinder is 3 inches in diameter. Seamless tubing, nicely polished. For wells and cisterns not over 20 ft. deep. Fitted for 1 1/4 in. suction pipe and 1 in. discharge. Faucet threaded for 3/4 in. hose connection. One of the finest little hand pumps on the market for kitchen use. Shipping weight, 20 lbs. Each .....\$3.45

**183B5916**—Kitchen Force Pump, with 3 in. iron cylinder. Each .....\$4.85

**183B5917**—Kitchen Force Pump, with 3 in. brass lined cylinder. Each .....\$5.85

## KITCHEN FORCE PUMP

### HEAVY DESIGN

Throws a large volume of water with very little exertion. For cisterns and wells not over 20 ft. deep. Fitted with heavy cast iron spout cock, with 3/4 in. hose coupling, as shown. When it is desired to pump water to attic tank, spout cock is closed, so that water is directed to tank through opening in back of spout which is tapped for 1 in. iron pipe. Fitted for 1 1/4 in. suction pipe. Shipping weight, 30 pounds.

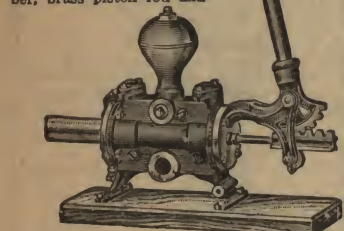
**183B5918**—Kitchen Force Pump, with 3 in. iron cylinder. Each .....\$4.85

**183B5919**—Kitchen Force Pump, with 3 in. brass lined cylinder. Each .....\$5.85

## HORIZONTAL FORCE PUMPS

### GEARED HEAD FORCE PUMP

Easy working, compact and substantially designed. For pumping water from cisterns, shallow wells, etc., to elevated tanks, pneumatic water supply systems, etc. Also adapted for fire protection, filling boilers, as a deck pump, and for many other purposes. Has a geared drive. A smooth, easy operating pump. Has a cushion air chamber, brass piston rod and



valve seats. Tapped for 1 1/4 in. suction pipe, and 1 in. discharge. Mounted on board base, about 7 1/2 x 24 in. Ship. wt., **183B5937**—With 3 in. brass lined cylinder. Each .....\$8.95

With Air Attachment.

**183B5938**—With 3 inch brass lined cylinder and air attachment for pneumatic systems. Each .....\$11.25

## DOUBLE ACTING FORCE PUMP

This pump is the same as our No. 183B5937, except that it does not have a geared drive. Has a cushion air chamber, brass piston rod, and valve seats. Cylinders are brass lined. A solid, well made pump in every detail. Mounted on board about 7 1/2 x 24 in. Tapped for 1 1/4 in. suction pipe, and 1 inch discharge pipe. Shipping weight, 55 lbs. **183B5932**—With 2 1/2 inch brass lined cylinder. Each .....\$7.40

**183B5933**—With 3 inch brass lined cylinder. Each .....\$8.00

Have you a good blacksmith's vise in your tool shed—always ready for the hundreds of needs you have for it? Ours have solid thread boxes, deep threaded steel screws and hardened, tempered, steel-faced jaws. See Index.

## STANDARD PUMP FITTINGS

### PUMP LEATHERS

Made of fine selected oak-tanned stock. It pays to use the best. Weight, 1 to 4 ounces.

### CRIMPED PLUNGER LEATHERS

**183B5984**—Please Note: Size corresponds to the inside diameter of cylinder.

Size, In.	Each	Size, In.	Each
1 1/4	\$0.04	3 1/4	\$0.14
1 1/2	.05	4 1/4	.23
1 3/4	.06	5 1/4	.33
2	.08	6 1/4	.44
2 1/2	.10	7 1/4	.55

### CHECK VALVE LEATHERS

**183B5985**—Sizes are for both the outside diameter of the leathers and corresponding size of the cylinder. Wts., 4 to 12 oz. per doz.

For Cylinder Inside Diam.	Outside Diam. of Leather	Each	Per Dozen
2 1/4 in.	2 1/2 in.	\$0.04	\$0.38
2 1/2 in.	2 3/4 in.	.05	.43
2 3/4 in.	3 in.	.06	.53
3 in.	3 1/4 in.	.08	.68
3 1/4 in.	3 1/2 in.	.10	.80
3 1/2 in.	3 3/4 in.	.12	.96

### DRIVE WELL POINTS

Made of wrought iron pipe. Perforated and galvanized; covered with a perforated brass jacket. We have two grades. The point in common use is No. 60 gauze. The very fine No. 100 gauze is used for quicksand, etc. The terms No. 60 and No. 100 refer to the number of wire meshes to the inch.

Size, In.	Length, In.	Shipping Weight, Pounds	183B5990 No. 60 Each	183B5991 No. 100 Each
1 1/4	24	7.5	\$0.67	\$1.43
1 1/2	24	7.5	.75	1.63
1 3/4	24	7.5	.83	1.83
2	24	7.5	.92	2.03
2 1/2	24	7.5	1.12	2.43
3	24	7.5	1.32	2.83
3 1/2	24	7.5	1.52	3.23
4	24	7.5	1.72	3.63

### DRIVE CAPS

**183B5986**—For driving well points. Malleable iron. Much heavier than the ordinary cap.

Pipe Size, In.	Weight, Lbs.	Each
1 1/4	1 1/2	15c
1 1/2	2 1/2	25c

### FOOT VALVE AND STRAINER

**183B6000**—Made of cast iron, japanned. Threaded for iron pipe.

Size	Wt., lbs.	Each
1 1/4	1 1/2	2c
1 1/2	2 1/2	3c
1 3/4	3 1/2	4c

### PIPE STRAINER

**183B5998**—Fastens to end of suction pipe with set screw. Made of malleable iron; will not break. Covered with brass wire cloth. Average length, 6 1/2 in.

Size, In.	Outside Diam.	Wt., Lbs.	Each
1 1/4	1 1/2 in.	1	19c
1 1/2	1 3/4 in.	1 1/2	20c
1 3/4	2 in.	2	27c

### SPIRAL EARTH AUGERS

Forged from special steel, properly tempered. For boring wells in any soil that is free from large rocks or hard pan. Regular standard wrought pipe is used for rod and should be cut in short pieces. The sizes, 2 1/2 and 3 in. are fitted for 1 1/4 in. pipe. Sizes 4 and 6 in. are fitted for 2 in. pipe. In two styles.

183B6004			183B6005	
Diam. Inches	Shp. Wt. Lbs.	Each	Shp. Wt. Lbs.	Each
2 1/2	12	\$1.95	8 1/2	\$1.92
3 1/2	14	\$2.10	9	\$2.03
4	22	\$3.00	16	2.95
6	50	6.25		



## LAKESIDE WATER ELEVATORS AND PURIFYING PUMPS

Made from selected, seasoned lumber, painted and decorated.

The water is brought up in galvanized buckets which, when passing down, carry air in to the water, purifying it and preventing it from becoming foul. Intended for any dug well over 18 in. diameter, and up to 40 ft. deep. Complete with chain buckets and bottom wheel. Ready for use. Shipping weight, about 80 lbs.

**183B6100**—For 10-foot well... \$4.45  
**183B6101**—For 15-foot well... 5.35  
**183B6102**—For 20-foot well... 6.25  
**183B6103**—For 25-foot well... 7.15  
**183B6104**—For 30-foot well... 8.05  
**183B6105**—For 35-foot well... 8.95  
**183B6106**—For 40-foot well... 9.85

For suitable iron platform, see No. 183B6136.

## WATER ELEVATORS AND PURIFIERS

Made of heavy galvanized sheet steel, with heavy cast iron base. One of the newest and strongest pumps made. Every precaution should be taken to secure the circulation of pure air through the water you drink. Pump operates in the same way as 183B6100 shown in the first column. Complete with chain buckets and bottom wheel. Ready for use. Shipping weight, about 60 pounds.

**183B6110**—For 10-ft. well... \$6.45  
**183B6111**—For 15-ft. well... 7.45  
**183B6112**—For 20-ft. well... 8.35  
**183B6113**—For 25-ft. well... 9.20  
**183B6114**—For 30-ft. well... 10.30

For suitable iron platform, see 183B6137.

## RUBBER BUCKET CHAIN PUMPS

Furnished complete, ready for use. Made of heavy galvanized steel. With heavy cast iron base.

The fixtures are of the latest improved pattern. In construction, material and workmanship this pump cannot be surpassed. Handsomely decorated with two coats of paint and one coat of varnish.

Each pump is complete with galvanized steel tubing, chain and rubber buckets. Shipping weight, about 47 pounds.

**183B6120**—For 10-ft. well... \$4.00  
**183B6121**—For 12-ft. well... 4.20  
**183B6122**—For 15-ft. well... 4.50  
**183B6123**—For 18-ft. well... 4.75  
**183B6124**—For 20-ft. well... 5.25  
**183B6125**—For 25-ft. well... 5.50

## RUBBER BUCKET CHAIN PUMPS

Made of well-seasoned wood, painted and decorated. Complete with galvanized steel tubing, chain and rubber buckets. Ship. wt. of pump, about \$5 lbs.

**183B6128**—For well 10 ft. deep... \$2.50  
**183B6129**—For well 12 ft. deep... \$2.70  
**183B6130**—For well 15 ft. deep... \$3.00  
**183B6131**—For well 18 ft. deep... \$3.35  
**183B6132**—For well 20 ft. deep... \$3.45

Are your roofs fire-resisting, weather-proof, ornamental? Are they guaranteed for 15 years? Each day we receive orders from customers whose friends have found these desirable qualities in our famous "Radio" Crushed Slate Surface Roofing. See Index.

## GALVANIZED PUMP CHAINS

**83B6145**—Made of the best grade of steel rod, thoroughly galvanized. For use with rubber buckets in pumps. Links are easily opened to attach bucket. Weight, 6 oz. per foot.

Per foot... 2 1/2

### RUBBER PUMP BUCKETS

**83B6142**—Rubber Buckets for chain pumps. Made of best grade of white rubber, and heavily tinned iron links. With small hole in the edge so that water will drain from tube. Size 1 1/2 in. Weight, 1 1/2 oz.

Per dozen... 35c

### Galvanized Chain Buckets

**183B6118**—Strong, galvanized iron Chain Buckets, to fit both of our chain bucket pumps, listed above. Sizes of bucket, 2 1/2 x 4 1/4 in. long. Length of bucket, including two links, 12 in. Furnished in any continuous length. Weight, per foot, 1 lb.

Per foot... 9c

## PUMP TOOLS AND ACCESSORIES

### PUMP PLATFORMS \$4.50 FOR ELEVATOR OR CHAIN PUMPS

Made of heavy cast iron; will last a lifetime and are far better than wood.

Use an iron platform with your pump, keep your well water pure and clean.

**183B6135**—For 183B6120 Pumps, etc. Width, 31 1/2 in.; Length, 34 in. Shipping weight, about 75 lbs. Each... \$4.50

**183B6136**—For Pumps 183B6100, etc. Width, 33 in.; Length, 40 in. Shipping weight, about 86 lbs. Each... \$4.50

**183B6137**—For Pumps 183B6110, etc. Width, 33 in.; Length, 40 in. Shipping weight, about 91 lbs. Each... \$4.50

### SAFETY CISTERN COVERS

**183B6140**—A slight turn of the cover locks it. Cast iron. To fit opening 20 in. Diam., at top, 24 in. Ship. wt., 51 lbs.

Each... \$2.10

### SANITARY WELL COVERS

**183B6035**—Seals the well tight from surface contamination. Cast iron, nicely painted. Should be set in cement. Pump and cover can be removed for repairs. Diam., 24 in. center opening, 6 in. Slotted bolt holes. Ship. wt., 55 lbs.

Each... \$3.75

### IRON PUMP STANDS

Made of cast iron. Slots for bolts. Holds the pump tight and rigid. Ship. wt., 22 and 24 lbs. Size given means inside diam. of pipe and of casing.

**183B6060**—For Standard Pipe. Pipe size... 4 in. 5 in. 6 in. Each... \$1.30 \$1.50 \$1.75

**183B6061**—For Well Casing. Casing Size... 4 1/2 in. 5 in. 5 1/2 in. Each... \$1.30 \$1.40 \$1.50

### STUFFING BOX HEADS

**83B6010**—Cast brass, with polished steel rod. Fitted at stub ends for 3/4 in. steel rod couplings. With 10 inch stroke.

Pipe Size In.	Weight Lbs.	Price Each
1 1/2	3 3/4	\$1.44
1 3/4	3 3/4	\$1.46
2	5 1/4	\$1.48

### HYDRAULIC DRILLS

**83B6045**—Hydraulic Jetting Drill. With leather valve. Best forged cast steel. Upper end threaded for standard wrought pipe. Sizes indicate the size of pipe the drills will pass through.

Size In.	Wt. Lbs.	Pipe Thread Size	Each
2	1 1/4	1 1/4	\$0.75
3	2 1/2	1 1/2	1.05
4	5	1 3/4	1.30

### EXPANSION DRILLS

**83B6016**—For drilling in earth or rock. Made of best forged cast steel. Upper end threaded for standard pipe.

Trade Size No.	Pipe Size Inches	Makes Hole Diam. Inches	Weight Lbs.	Each
2	1 1/4	4	5 1/2	\$2.80
3	1 1/2	4 1/2	7 1/2	3.50
4	2	5 1/2	16	4.20
				5.60

### SAND BUCKETS

**183B6018**—Lap welded steel. For cleaning drilled wells. Fit inside of casing. Ball at upper end to fasten rope. Easy working bottom check valve. Length, 4 ft. Size, 3 inch. Wt., 17 lbs.

Each... \$2.22

Size, 4 inch. Wt., 23 lbs. Each... \$3.35

### IRON FLOAT VALVES

**83B6020**—For windmill tanks. Used in connection with a copper float.

Size, In.	Weight, Lbs.	Each
1	1 1/4	45c
2	2 1/4	46c
3	3 1/4	56c

### ENTERPRISE FLOAT VALVES

**83B6022**—Cast iron. Used with copper float to control flow into tanks, etc.

Pipe size, in.	Weight, lbs.	Each
1	1 1/4	84c
2	2 1/4	92c
3	3 1/4	98c

### COPPER FLOATS

**83B6024**—Used with float valve.

Size, 9/16 x 3 in.	Each
	95c

### STUFFING BOX HEADS

**83B6012**—Iron, with polished steel rod, fitted at top end with square wood rod socket and at bottom for 3/4 in. steel rod. Can be used with windmill in place of pump standard. Has side outlet. 10 in. stroke.

Pipe Size In.	Weight Lbs.	Price Each
1 1/2	10 3/4	\$1.85
1 3/4	13 3/4	1.86
2	15 3/4	1.87

### PUMP SPOUT ATTACHMENTS

To hang over spout of lift pumps to convey water from pump spout through pipe. Easily detached when not needed. Cast iron, japanned.

Wt., 4 lbs.

**83B5890**—Tapped for 1 1/4 inch pipe. Each... 24c

**83B5891**—Tapped for 1 1/2 inch pipe. Each... 25c

### WOOD ROD COUPLINGS

**83B6030**—Malleable iron, with two rivet holes in each for connecting wood rods. Galvanized. Per set as shown.

Size In.	Weight Lbs.	Each
1 1/4	1 1/4	15c
1 1/2	1 1/2	20c

**SQUARE WOOD PUMP ROD**—Used chiefly in tubular wells for connecting cylinder to pump head. Length, about 12 feet.

**183B6032**—Size, 1 in. Wt., 30 lbs. per 100 ft.

**183B6033**—Size, 1 1/2 in. Wt., 50 lbs. per 100 ft.

100 ft. ... \$1.65

### GALVANIZED PUMP RODS

Round steel rod for connecting cylinder to pump head. Lengths about 18 ft. Diameter, 3/4, 1, and 1 1/4 in. Wt., 2 to 6 oz. per ft.

**183B6036**—Size, 3/4 in. Not threaded. (Give size)... 2c

**183B6037**—Per foot. Threaded and cut to any exact length. (Give size)... 4c

### ROD COUPLINGS

Malleable iron. Galvanized and threaded for steel pump rods. Wt., 2 1/2 oz. each.

**83B6040**—Size, 1 in., 1 1/4 thread. Each... 30c

**83B6041**—Size, 1 1/2 in., 1 1/2 thread. Each... 40c

**83B6042**—Size, 2 in., 2 in. thread. Each... 50c

### PUMP ROD TONGS

**83B6045**—Never Slip Tongs for pump rod. Have an inserted steel jaw, and is the best tool for handling pump rod. Length, 12 in. Weight, 1 1/2 lbs.

Each... 78c

### WELL WHEELS

**83B6070**—Well Wheels, japanned iron.

Diam.	Wt., Lbs.	Each
8 in.	3	24c
10 in.	4 1/2	32c
12 in.	5 1/2	36c

### WELL WHEEL HOOKS

**83B6071**—Made of 3/8 inch wrought iron. End threaded with nut. Length, 6 1/2 in. Weight, 8 oz.

Each... 6c

Per dozen... 70c

### WELL CHAINS

**83B6073**—Galvanized iron, well chains. Length, 2 ft. with hook and ring. Weight, 9 oz.

Each... \$0.10

Per dozen... 1.00

### PIPE LIFTER AND HOLDER

**183B6050**—Rabcock Pipe Lifter and Holder. Malleable iron. Wood base. Suitable for pipe, size 1 in. to 2 in. inclusive. Wt., 44 lbs. Each... \$4.95

### WELL PIPE HOLDERS

**183B6052**—Mounted on a 2-in. plank; malleable iron. Quickly adjustable to hold either 1 in., 1 1/4 in., or 1 1/2 in. pipe. Chilled concave pipe jaws. Shipping wt., 35 lbs. Each... \$1.75

### PIPE LIFTING CLEVIS

**183B6054**—A handy device to prevent pipe from slipping when being taken from well. Heavy iron. For 1 in. and 1 1/4 in. pipe. Shipping wt., 10 lbs. Each... 72c

### ANTI-FREEZING PIPE HYDRANTS

Wrought pipe hydrant. With brass stop and wash valve, shut-off rod and goose-neck head for 3/4 inch hose connection. Size of upright pipe, 3/4 in.

When hydrant is shut off, water drains out of upright pipe so that freezing is impossible. Connects to underground water pipe below frostline. A good, serviceable hydrant for farm use; stock watering, lawn sprinkling, irrigation, etc.

**183B6892**—Length, four feet. Wt., 15 lbs. Each... \$1.35

**183B6898**—Length, seven feet. Wt., 20 lbs. Each... \$1.50

### QUICK OPENING LEVER HYDRANTS

**183B6291**—Quick opening lever handle hydrant. One of the simplest, quickest and surest acting hydrants ever placed on the market. Leather valve seats can be replaced without digging out hydrant. Head casting and handle, malleable iron. Upright is wrought pipe. Anti-freezing hose connection on spout.

Pipe Size	Lgh. Ft.	Ship. Lbs.	Each
3/4 in.	4	15	\$3.50
1 in.	6 1/2	25	3.95
1 1/4 in.	8 1/2	40	4.75
2 in.	10	60	5.25

### RUBBER SUCTION HOSE WIRE INSERTION

High grade. Following lengths: 10, 15, 20 and 25 ft. Without couplings.

Article Number	Inside Diam. In.	Average Wt. Ft.	Per Ft.
183B6230	1 1/4	1 1/4 oz.	21c
183B6232	1 1/2	1 1/2 lb.	23c
183B6234	2	2 lb.	25c
183B6236	2 1/2	2 1/2 lb.	27c
183B6238	3	3 lb.	29c

### RUBBER WATER HOSE

Made of good material. Will give excellent service. Brass couplings with 50 ft. length hose.

**83B6190**—Size, 1 in., 3-ply. Wt., 50 ft., 11 lbs.

Per foot... 8c

**83B6191**—Size, 1 1/4 in., 4-ply. Wt., 50 ft., 13 lbs.

Per foot... 9c

**83B6192**—Size, 1 1/2 in., 3-ply. Wt., 50 ft., 20 lbs.

Per foot... 14c

**83B6193**—Size, 2 in., 4-ply. Wt., 50 ft., 22 lbs.

Per foot... 18c

### WHITE RUBBER TUEING

**83B6220**—Rubber Tubing for springs, bath sprays, etc. Extra quality. Corrugated. Wt., 1 to 5 oz. ft.

Diam.	Wall	Pr. ft.
3/8 in.	1/16 in.	2 1/2 c
1/2 in.	1/8 in.	4 1/2 c
3/4 in.	3/16 in.	6 c
1 in.	1/4 in.	9 c
1 1/4 in.	5/16 in.	10 c

### STEAM HOSE

Extra quality. Three-ply, will stand about 20 lbs. steam pressure; 4-ply, 35 lbs. Sizes given are the inside diameters. (Couplings not included.) Weights range from 17 to 50 lbs. per 50 ft. lengths.

Number	Size	Per foot
83B6210	3/4 in.	3-ply 20c
83B6211	1 in.	4-ply 32c
83B6212	1 1/4 in.	4-ply 37c
83B6213	1 1/2 in.	4-ply 44c

### PLUMBERS' TOOLS

#### PLUMBERS' SHAVE HOOK

**83B5620**—Oval steel blade. Length 2 1/4 in. Hardwood handle. Length, 5 in. Weight, 2 oz. Each... 18c

#### PLUMBERS' DRESSERS

**83B5622**—Best quality. Length, 13 in. Weight, 1 lb. Each... 40c

#### PLUMBERS' TURN PINS

**83B5624**—Best quality wood. Made true and finely finished. Weight, 2 oz.

Size	Diam.	Each
1	2 1/4 in.	15c
2	2 1/2 in.	16c
3	2 3/4 in.	17c

#### PLUMBERS' WIPING CLOTH

**83B5628**—Made of soft ticking. Size, about 3x3 in. Wt., 4 oz. Each... 8c

#### PLUMBERS' DRIFT PLUGS

**83B5626**—Best quality wood. Weight, 1/2 to 2 oz.

Diam., inches	1 1/4	1 1/2	1 3/4
Each	9c	10c	12c

#### PLUMBERS' TAP BORER

**83B5630**—Steel blade, sharpened and tempered. Hardwood handle, well made. Weight, 4 oz. Each... 18c

### LAKESIDE SUCTION HOSE WIRE INSERTION

Braided Cotton Jacket. Fine for Tank Wagons.

**183B6290**—A high grade, durable hose. Inside diameter, 2 in. Water-proof, braided Cotton Jacket. Constructed of cotton and rubber, in alternate layers. A round steel wire insertion makes it stiff and rigid. Smooth rubber lining. Raised ends, so couplings can be easily attached. Following lengths: 10, 12, 15, 20, and 25 feet, without couplings. Average shipping weight, per foot, 1 1/2 lbs. Size, 2 in.

Per foot... 34c

### COTTON MILL HOSE

Cotton Mill Hose, rubber lined. Extra quality. Used largely for fire protection. Sold only in 25 and 50 ft. lengths, without couplings.

**83B6204**—Size, 1 in., weight, 50 ft., 15 lbs.

Per foot... 16c

**83B6205**—Size, 1 1/4 in., wt. 50 ft., 23 lbs.

Per foot... 18c

**83B6206**—Size, 2 in., weight, 50 ft., 28 1/2 lbs.

Per foot... 25c

### STEAM HOSE

Extra quality. Three-ply, will stand about 20 lbs. steam pressure; 4-ply, 35 lbs. Sizes given are the inside diameters. (Couplings not included.) Weights range from 17 to 50 lbs. per 50 ft. lengths.

Number	Size	Per foot
83B6210	3/4 in.	3-ply 20c
83B6211	1 in.	4-ply 32c
83B6212	1 1/4 in.	4-ply 37c
83B6213	1 1/2 in.	4-ply 44c

## \$36.95 LAKESIDE WATER SUPPLY SYSTEMS

### RUNNING WATER IN YOUR HOME—A GREAT CONVENIENCE AT A SMALL COST

Our Lakeside Pneumatic Water Supply Systems are furnished complete, ready for assembling. The only tool you need to set one of these outfits up complete, is an ordinary pipe wrench. Outfit consists of tank, water gauge, pressure gauge, combination air and water pump, gate and check valves, and fittings to connect pump and tank. Suction pipe from well not included. Furnished with tank, either black or galvanized, to stand vertically or lie horizontally.

#### VERTICAL OUTFITS

**281B8175**—Water Supply System. With 24 inch by 6 foot Black tank, tapped to stand vertically. Ship. wt., 407 lbs. Price, complete... \$36.95

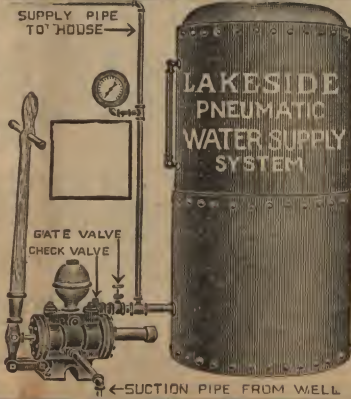
**281B8176**—Complete Outfit, as above. With tank, galvanized inside and outside. Price... \$48.10

#### HORIZONTAL OUTFITS

**281B8187**—Water Supply System. With 24 inch by 8 ft. Black tank, tapped to lie horizontally. Ship. wt., 575 lbs. Price, complete... \$43.10

**281B8188**—Complete outfit, as above. With tank galvanized inside and outside. Price... \$59.75

Pump and fittings shipped promptly from our store. Tank shipped from factory in Northern Illinois.

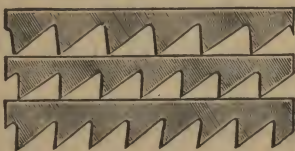




# LAKE SIDE HIGH GRADE HAND SAWS

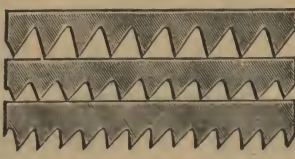
Showing actual sizes of 5, 5½ and 6 points per inch on Rip Saws.

Used for rapid sawing with the grain of the wood. For ripping only.



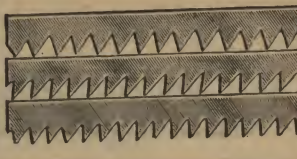
Showing actual sizes of 7, 8 and 9 points per inch on Hand Saws.

Used for all ordinary sawing across the grain of the wood. A saw with 8 or 9 points is most commonly used.



Showing actual sizes of 10, 11 and 12 points per inch, on Panel Saws.

Used for fine sawing across the grain of the wood. For close fitting, accurate work.



## ALL THE ESSENTIAL QUALITIES OF A GOOD SAW ARE FOUND IN THE VERY HIGHEST DEGREE OF PERFECTION IN THE LAKE SIDE

**QUALITY.** The finest quality of saw steel is used, and the greatest care taken in each process from start to finish.

**CONSTRUCTION.** Experts in saw making are employed at every stage of their manufacture. The filing and setting is all done by hand. The grinding, to a true taper, is by patented process, and insures a fast, easy cutting saw.

**The Hang.** This is the quality that makes a saw feel right in the hand, work easy and with satisfaction to the operator. Not every make of saw will balance right or hang as it should. You will always find a Lakeside Saw to hang perfectly, with an easy, comfortable grip. Lakeside Saws cut without binding, even in the hardest wood. Carefully ground, with extra thin back, finely finished throughout. Made from the best quality saw steel, and can be depended upon to give absolute satisfaction. Buy a Lakeside Saw if you want the best.

### YOU TAKE NO RISK WHEN YOU BUY A LAKE SIDE SAW

Lakeside Saws are equal to, if not better, than corresponding grades of any of the best makes of saws on the market—barring none. We solicit your orders on a basis of Equal or Better Value at a Lower Price.

**EXPLANATION.** The points on a saw, 6, 7, 8, 9, points, etc., mean the number of tooth points to an inch. Thus a 9-point saw has 9 teeth to the inch. (Always give number of points wanted on saw.)

A Panel Saw is the trade term used to designate a small hand saw, with blade up to 22 in. long. They are intended for the lighter and finer kind of work. Remember—Lakeside Saws are perfect in every detail. Thousands of mechanics use them in preference to others.

## THE FAMOUS LAKE SIDE HAND SAW

\$1.40 26 in.

A PERFECT TOOL



Illustration shows Rip Saw, which has finger hole in handle

### LAKE SIDE HAND SAW No. 8

**85B21—Lakeside Hand Saws, No. L8.** With Skew Back, ground to a perfect taper. Extra refined spring steel, thin back. Hand-hammered. Hand-filed and set. Ready for use. Patent taper ground. A very popular saw. Thousands in use. Applewood handle. Brass screws. Give size and point.

Size	Points to inch	Average wt.	Each
16-in. Panel	10, 11, 12	1 lb.	\$0.90
18-in. Panel	9, 10, 11, 12	1 lb.	1.00
20-in. Panel	8, 9, 10, 11, 12	1 1/4 lbs.	1.10
22-in. Panel	8, 9, 10, 11, 12	1 1/4 lbs.	1.20
24-in. Hand	8, 9, 10, 11, 12	1 1/4 lbs.	1.30
26-in. Hand	6, 7, 8, 9, 10, 11, 12	1 1/4 lbs.	1.40
28-in. Rip	5, 5 1/2, 6	2 lbs.	1.60

### LAKE SIDE No. 7 \$1.15 26 in.



**85B20—Lakeside Hand Saws, No. L7.** Extra quality. Patent taper ground and tempered. Made from refined crucible steel. Straight thin back. Hand-hammered. Brass screws. Hand-filed and set. Ready for use. Regular \$1.50 to \$2.50 retail value.

Size	Points to inch	Weight	Each
16-in. Panel	8, 9, 10, 11, 12	1 lb.	\$0.75
18-in. Panel	8, 9, 10, 11, 12	1 lb.	.80
20-in. Panel	8, 9, 10, 11, 12	1 1/4 lbs.	.95
22-in. Panel	8, 9, 10, 11, 12	1 1/4 lbs.	1.05
24-in. Hand	8, 9, 10, 11, 12	1 1/4 lbs.	1.10
26-in. Hand	7, 8, 9, 10, 11, 12	2 lbs.	1.15
28-in. Rip	5, 5 1/2, 6	2 1/2 lbs.	1.35

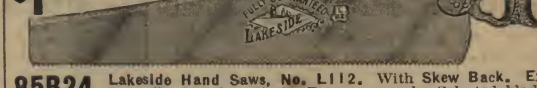
### LAKE SIDE No. 100 \$1.60 26 in.



**85B22—Lakeside Hand Saws, No. L100.** With Skew Back. Extra refined spring steel. Patent ground and tempered. Thin back. Hand-hammered. Hand-filed and set. Ready for use. Skew back. Carved applewood handle. Brass screws. Can not be excelled for fast, smooth cutting. Usual \$1.75 to \$2.75 retail value.

Size	Points to inch	Weight	Each
16-in. Panel	10, 11, 12	1 lb.	\$1.05
18-in. Panel	10, 11, 12	1 lb.	1.15
20-in. Panel	10, 11, 12	1 1/4 lbs.	1.25
22-in. Panel	9, 10, 11, 12	1 1/4 lbs.	1.35
24-in. Hand	8, 9, 10, 11, 12	1 1/4 lbs.	1.45
26-in. Hand	7, 8, 9, 10, 11, 12	1 1/4 lbs.	1.60
28-in. Rip	5, 5 1/2, 6	1 1/2 lbs.	1.75

### LAKE SIDE No. 112 \$1.80 26 in.



**85B24—Lakeside Hand Saws, No. L112.** With Skew Back. Extra refined spring steel. Patent ground. Selected blade. Thin back. Hand-hammered. Hand-filed and set. Ready for use. Carved applewood handle. Brass screws. Beautifully polished and finished. The highest standard of excellence.

Size	Points to inch	Average Weight	Each
16-in. Panel	10, 11, 12	1 lb.	\$1.20
18-in. Panel	10, 11, 12	1 lb.	1.30
20-in. Panel	10, 11, 12	1 1/4 lbs.	1.45
22-in. Panel	8, 9, 10, 11, 12	1 1/4 lbs.	1.55
24-in. Hand	8, 9, 10, 11, 12	1 1/4 lbs.	1.70
26-in. Hand	6, 7, 8, 9, 10, 11, 12	1 1/4 lbs.	1.80
28-in. Rip	4 1/2, 5, 5 1/2, 6	2 lbs.	2.00

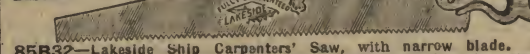
### LAKE SIDE HAND SAW \$1.60 HOLLOW GROUND



**85B30—Lakeside Hand Saw to run without set.** Narrow steel blade, 6 in. wide at the butt, 1 1/2 in. wide at the point, concave taper ground. Carved beech handle. Brass screws. Will run without set in any ordinary wood that is used for inside finishing. It is especially adapted for smooth cutting and where fine work and close joints are required. Average weight, 1 1/2 lbs.

Size, 26 in. blade, 8, 9, 10, 11, 12 points to an inch. \$1.60 Each (Give point wanted.)

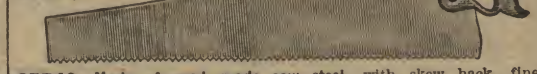
### SHIP CARPENTERS' SAW NARROW BLADE



**85B32—Lakeside Ship Carpenters' Saw, with narrow blade.** A great favorite with many mechanics. Extra refined spring steel, taper ground thin back, finely tempered, hand-hammered, hand-filed and set ready for use. Beech handle, brass screws. (State point wanted.)

Size	Points to inch	Average Weight	Each
22-in. Panel	9, 10, 11, 12	1 lb.	\$1.00
24-in. Hand	8, 9, 10, 11, 12	1 1/4 lbs.	1.10
26-in. Hand	7, 8, 9, 10	1 1/4 lbs.	1.25
28-in. Rip	5, 5 1/2, 6	1 1/2 lbs.	1.45

### STANDARD HAND SAWS



**85B40—Made of good grade saw steel, with skew back, finely polished, and fitted with carved applewood handle.** Brass screws. A good, well finished saw for all around general use. Regular \$1.00 to \$1.25 retail value. (Give point wanted.)

Size	Points to inch	Average Weight	Each
18-in. Panel	10	1 lb.	70c
22-in. Panel	10	1 1/4 lbs.	75c
22-in. Rip	6	1 1/4 lbs.	75c
26-in. Hand	9, 10	1 1/4 lbs.	85c

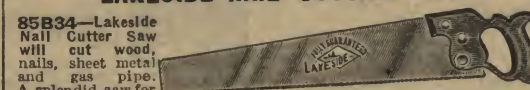
### HENRY DISSTON SAWS



**85B38—Genuine Disston Saw, D 8, with skew back, full polished steel blade, applewood handle.** Brass screws. We have the following sizes and points only. (Give point wanted.)

Size	Points to inch	Weight	Each
26-in. Hand	7, 8, 9, 10	2 lb.	\$1.60
28-in. Rip	5, 5 1/2, 6	2 lb.	1.80

### LAKE SIDE NAIL CUTTING SAW



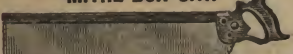
**85B34—Lakeside Nail Cutter Saw** will cut wood, nails, sheet metal and gas pipe. A splendid saw for emergency work, or for old work where the ordinary saw would be injured. Polished steel blade. Applewood handle, brass screws. It can be filed, but does not require setting as it is taper concave ground. A desirable addition to any carpenter's kit of tools. Average weight, 1 lb.; length of blade, 18 in. \$1.40 Each

### COMBINATION SAW



**85B42—Combination Saw, 26-in. blade, straight back.** Graduated, comprising a 24-in. square and rule, and straight edge. Beech handle, brass screws. A good saw for ordinary work around the house. Steel blade. Average weight, 1 1/2 lbs. 45c Each

### MITRE BOX SAW



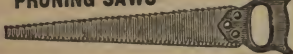
**85B54—Lakeside.** Extra heavy back. Applewood handle, brass screws. Polished steel blade. Hand filed and set ready for use. Size, 24 1/2 in. Average weight, 2 1/2 lbs. Each \$1.75  
Size, 28 1/2 in. Average weight, 5 lbs. Each \$2.25

### BACK SAWS



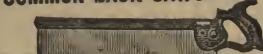
**85B50—Lakeside, back saw, extra spring steel, hand hammered, with a stiff steel back, applewood handle, brass screws.** Hand filed and set, ready for use.  
Size, in. 10 12 14 16  
Wt. lbs. 7 1/2 1 1/4 1 1/2 1 3/4  
Each \$1.00 \$1.00 \$1.10 \$1.25

### PRUNING SAWS



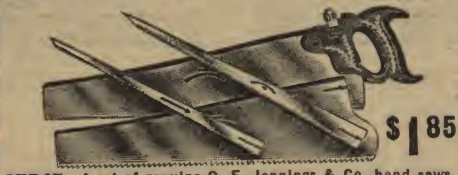
**85B58—Double Edge Pruning Saw.** Extra refined spring steel, polished blade, beech handle, brass screws. Handy for many purposes. Wt., 1 1/2 lb. Length of blade, 16 in. Each. 40c  
Length of blade, 18 in. Each. 45c

### COMMON BACK SAWS



**85B51—Back Saw, cast steel, heavy blued back, beech handle.** Brass screws. Size, 10 in. by 3 1/2 in. wide. Wt., 15 oz. 65c Each

### COMBINATION SET OF SAWS



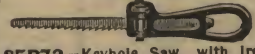
**85B45—A set of genuine C. E. Jennings & Co. hand saws,** comprising a detachable handle and four polished steel blades; one panel saw, 18 in.; one rip saw, 18 in.; one compass saw, 15 in.; one keyhole saw, 13 in. The blades are held rigidly in place by a lever on top of the handle, where it cannot interfere with the work. Shipping weight, 1 1/2 lbs. Our bargain price, saw set complete as shown... \$1.85

### JENNINGS' HIGH GRADE SAWS



**85B46—Set consists of one 18-in. Rip Saw Blade; one 18-in. Panel Saw Blade; one 16-in. Nail Pruning Saw Blade; one 15-in. Nail Cutting Saw Blade; one 15-in. Compass Saw Blade; one 13-in. Keyhole Saw Blade; one adjustable handle, which holds all the blades firmly; one Black Waterproof Case.** Shipping weight, 2 1/2 lbs. \$4.00 retail value. Price, complete \$2.95

### KEYHOLE SAWS



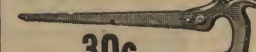
**85B73—Keyhole Saw, with iron handle, polished steel 7-in. blade, filed and set.** Brass clamp holds blade firmly. Weight, 3 oz. Each... 14c  
**85B74—Extra blades, for above,** length, 7 in. Each... 10c

### COMPASS SAWS



**85B70—Cast steel.** Beech handle. Nickel plated screws. Weight, 8 oz. Length, in... 10 11 1/2 13 1/2  
Each... 12c 14c 15c

### EXTRA QUALITY



**85B71—Lakeside extra quality compass saws.** Steel blade. Thin back, hand hammered, filed and set ready for use. Beech handle. Two brass screws. Wt., 8 oz. Length, in... 12 14 16  
Each... 30c 35c 40c

### SAW HANDLE SCREWS



**85B90—Diameter of cap, 1/2 in.** Weight, per dozen, 4 oz. Each... 3c  
Per doz... 36c  
**85B91—Diameter of cap, 3/8 in.** Weight, per dozen, 4 oz. Each... 4c  
Per doz... 48c  
**85B92—Diameter of cap, 1 in.** Weight, per dozen, 6 oz. Each... 4c  
Per doz... 48c

### REMEMBER

Our Lakeside brand saws and tools are equal or superior to any other brand, and we are able to sell them at our low prices, only by eliminating expenses which are unavoidable when marketing goods in the usual way.

### NAIL CUTTING COMPASS SAW



**85B72—Extra quality 1 1/2-inch steel blade** will cut wood or hollow ground. Needs no set. May be sharpened with a file. Finished handle. Iron screws. Weight, 7 oz. Each... 45c

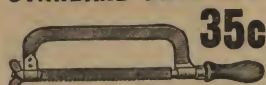
### HANDLES FOR HAND SAWS

**85B80—Common beechwood handles for 26 in. hand saws.** Weight, 6 oz. Each... 10c



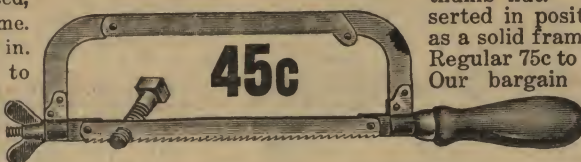
# IMPROVED HACK-SAWS FOR CUTTING METALS

## STANDARD HACK-SAW



**85B100**—Nickel plated steel frame. Rigid and strong. Blade tightens by a wing nut, and will face 4 ways. Weight, 10 oz. A good hack saw for general use—on the farm or in the shop. Our price is very low. Regular 60c value. With one 8-inch regular blade. Each....**35c**

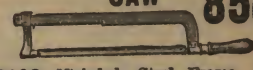
## NICKELED ADJUSTABLE HACK-SAW



**85B115**—Nickel plated, strong steel frame. Holds blades 8 to 12 in. long. Adjustable to face the blades at four different angles. Tightens with

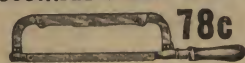
thumb nut. When saw is inserted in position, it is as firm as a solid frame. Weight, 1 lb. Regular 75c to \$1.00 retail value. Our bargain price, with one regular 8-in. blade. Each....**45c**

## STAR ADJUSTABLE HACK-SAW



**85B102**—Nickel-plated, Steel Frame. Holds blades 6 to 12 in. long. Blades tightened by turning handle. Faces blades four ways. A strictly first-class, well finished hack saw. Star hack saws have an excellent reputation. Average weight, 1 lb. 6 oz. \$1.25 retail value. With one 9-inch regular blade. Each.....**85c**

## ADJUSTABLE FRAME HACK-SAW



**85B104**—Nickel-plated Steel Frame. Takes 8 to 12 in. blades. Blades tightened by turning handle. Will face four ways. One of the finest frames on the market. One of the most popular styles among hack saws. Extensively used in shops, factories, etc. Average weight, 1 lb. Usual \$1.25 retail value. With one 10-inch regular blade. Each.....**78c**

## LIGHT HACK-SAW



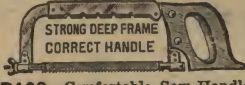
**85B112**—Japanned, malleable iron frame, wood handle. The blade can be faced four ways. Blade is tightened by turning wing nut at front end. A good low priced hack saw. Suitable for farm or home use where the work is of a light nature. 25c retail value. Weight, 8 oz. With one 8-inch regular blade. Each.....**13c**

## PISTOL GRIP HACK-SAW



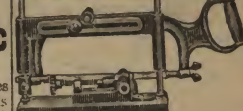
**85B94**—Extra heavy nickel-plated steel frame. Holds blades 8 to 12 in. Tightens with thumb lock. Adjustable to face blades at four different angles. Fitted with durable black rubberoid handle. Wt., 1 1/4 lbs. With one 8 in. regular blade. Each.....**\$1.15**

## EXTRA HEAVY HACK-SAW



**85B109**—Comfortable Saw Handle, makes sawing easier, more accurate and lessens breakage of blades. Heavy, adjustable, 4 1/2 in. nickel-plated steel frame. Holds blades length 8 to 12 in. Blades tightened by wing nut. Will face four ways. Wt., 1 1/2 lbs. With 8 in. regular blade. Each.....**95c**

## BENCH HACK-SAW



**185B118**—Goodell-Pratt bench saw. Will saw square or at an angle. Holds either 8 or 9 in. blades. The swivel vise opens 2 in. Ship. wt., 16 1/2 lbs. With one 9-in. regular blade. Each.....**\$2.75**

## STAR HACK-SAW BLADES

### STANDARD BLADE

**85B122**—Genuine Star Hack-Saw Blades are uniform in quality. Made of hard and tough steel. Every blade perfect and will give the best of satisfaction. Quality and temper are just right, making a perfect blade. Cuts fast and smooth. Regular teeth, 14 to the inch. Weights, per dozen, 4 to 9 oz. Length, inches.....**32c** 35c 40c 48c 6c

### HEAVY BLADE FOR POWER SAWS

**85B123**—Star Blade. Length, 12 in.; width, 1/2 in. Per Doz.....**62c** Each.....**7c**

## FLEXIBLE HACK-SAW BLADES

WITH FINE STEEL TOUGH FLEXIBLE BACK, AND KEEN, HARD CUTTING EDGE.

**85B120**—Regular teeth, 14 to the inch. Length, inches.....**33c** 35c 43c 50c

Will do quick, clean work and give satisfaction. Weights, per dozen, 5 to 9 oz.

Manufactured by a special process, whereby the teeth only are hardened, the back remaining soft and tough. The blade will not stretch, snap or break, assuring the user full efficiency until the teeth are worn dull.

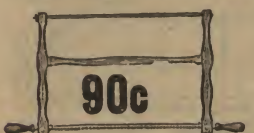
## GOODSELL-PRATT HACK-SAW BLADES

Made from the finest quality of hot-rolled sheet steel, sharpened and set by a special process which makes them remarkably fast cutters. They are tempered all over like a file or mill file and will cut very freely and easily. One of the fastest cutting blades in the market. Weights, per dozen, 5 to 9 oz.

**85B124**—Regular teeth, 14 to the inch. Suitable for iron and steel. Length, inches.....**40c** 43c 50c 60c 70c

**85B125**—Fine teeth, 20 to the inch. Suitable for brass or tubing, etc. Length, inches.....**42c** 45c 52c 62c 7c

## HARDWOOD TURNING SAW



**85B144**—Has index on each handle to show just how far to turn. The friction is regulated by screws. Frame, complete, with one 18-inch blade. Average wt., 1 1/2 lbs. Each....**90c**

**85B145**—Extra 18-inch blades. Average weight, 1 oz. Each.....**16c**

## BALL BEARING COPING SAW



**85B130**—Millers' Falls Coping Saws. Handle and blade revolve, or can be held perfectly rigid. Nickel-plated steel frame. Depth, 4 1/2 in. Cocobola handle. Wt., each, 8 oz. With three blades, 6x3/32 in., for wood or metal. Each.....**80c**

**85B131**—Extra blades, width, 1 1/4 in. Per dozen.....**10c**

**85B132**—Extra blades, 3/32 in. Per dozen.....**35c**

## FINE VALUES IN BRACKET AND COPING SAWS

### COMMON COPING SAW

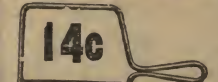


**85B135**—Steel frame. Nickel-plated. Depth, 4 in. Enamelled handle. With one 6x3/32 in., extra quality blade for wood or soft metal. An excellent low priced saw for general use. Weight, 7 oz. Each....**18c**

### BRACKET SAW BLADES

**85B142**—Extra quality, 5 in. steel blades. In packages of one dozen. We do not sell less than a dozen of a size. No. 0 are the finest; No. 10 the coarsest. Wts., per gross, 2 to 4 oz. Give size.

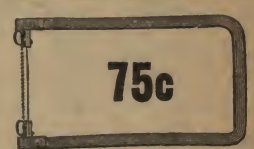
### NICKELED COPING SAW



**85B137**—Nickel-Plated Steel Wire Frame. Depth of cut, 4 in. Weight, 6 oz. With one doz. 6 in. blades. Each.....**14c**

**85B138**—Extra Blades. Per gross, 60c Per dozen.....**6c**

## DEEP BRACKET SAW SET



**85B140**—Nickel-plated steel frame, with rosewood handle. Length of frame, 5 in. Depth, 12 in. Complete with 3 sheets of design, 6 saw blades, 1 awl. 1 sheet of impression paper, packed in pasteboard box. Average wt., 1 1/4 lbs. Usual \$1.25 retail value. Per set.....**75c**

## BUCK SAWS

### HIGH GRADE BUCK-SAW



**85B148**—Frame selected hardwood. Improved rod. Blade of extra spring steel, finely tempered. Length, 30 inches. Thin back, standard V tooth, set and sharpened ready for use. Average weight, 4 lbs. Each.....**60c**

### HIGH GRADE BUCK-SAW



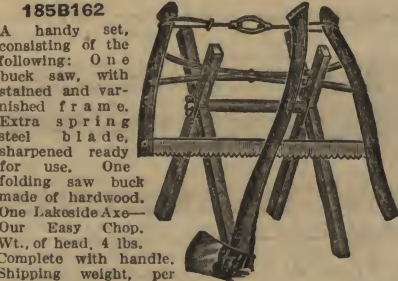
**85B150**—Frame of selected hardwood. Improved rod. Blade of extra spring steel, blue, finely tempered. Length, 30 in.; thin back, standard V tooth, set and sharpened ready for use. Regular \$1.00 retail value. Wt., 4 lbs. Each.....**60c**

### COMMON BUCK-SAW



**85B152**—With polished blade. Frame of selected hardwood, painted red. Blade of extra steel, finely tempered. Length, 30 in. Standard V tooth, set and sharpened. Wt., 4 pounds. Each.....**45c**

## SAW AND AXE SET



**185B162**—A handy set, consisting of the following: One buck saw, with stained and varnished frame. Extra spring steel blade, sharpened ready for use. One folding saw buck made of hardwood. Our Easy Chop. Wt., of head, 4 lbs. Complete with handle. Shipping weight, per set, 14 lbs.

Price, per set.....**\$1.25**

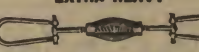
**185B163**—Folding Saw Buck only. Shipping weight, 5 lbs. Each.....**18c**

## BUCK-SAW FRAMES



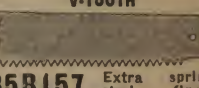
**85B156**—Buck Saw Frame only. Selected hard wood, with double brace. Painted red, and varnished. Wt., 2 1/2 lbs. Per set.....**20c**

## BUCK-SAW RODS



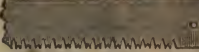
**85B160**—Heavily tinned to prevent rusting. Substantial and durable. Length, 22 in. Weight, 12 oz. Each.....**8c**

## BUCK-SAW BLADES



**85B157**—Extra spring tempered, polished, bright. Length, 30 in. Set and sharpened ready for use. Standard V tooth. Weight, 9 oz. Each.....**37c**

## BUCK-SAW BLADE



**85B158**—Extra spring steel, patent tooth. Length, 30 in. Set and sharpened. Patent tooth. Fast, easy cutting. Weight, 9 oz. Each.....**45c**

## FOOT POWER SCROLL SAWS

### NEW ROGERS' SCROLL SAWS

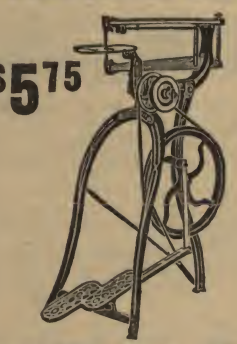


**185B170**—Genuine Millers' Falls, New Rogers' Scroll or Bracket Saw. With iron frame, neatly japanned and mounted. The arms and pitman are of polished steel, carefully fitted to the bearings. Has a jointed stretcher rod which allows the operator to throw the upper arm out of the way when adjusting the work or the saw. Fitted with a dust blower and the balance wheel has a rim of emery for sharpening drill points and small tools. Has a small screw chuck for holding drill points.

A cast iron drive wheel, for round belt, connected to the foot treadle with an ash pitman rod.

With each machine we include 12 saw blades, 1 sheet of designs and 3 drill points. Weight of machine, 28 lbs. Shipping weight, boxed, 45 pounds. Each.....**\$4.30**

### STAR SCROLL SAW



**185B172**—Genuine Millers' Falls Star Saw. With heavy drive wheel, and two balance wheels, one with iron and one with an emery rim, which gives steadiness to the motion. The emery wheel can be used to sharpen and polish tools. The arms have a free and easy action and are adjusted so that they keep parallel with each other. Fitted with patent dust blower.

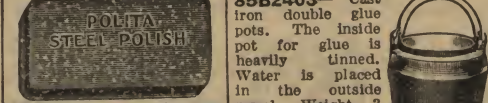
The frame is nicely japanned and ornamented and the table is nickel-plated. We include with each machine, 12 saw blades, 1 sheet of designs and 3 drill points. Weight of machine, 37 pounds. Shipping weight, boxed, about 70 lbs. Each.....**\$5.75**

## SAND PAPER AND EMERY CLOTH

SAND PAPER			EMERY CLOTH		
<b>85B2400</b> —Extra quality. Flint or Sand Paper. Tough and satisfactory. Fast cutting surface. The No. 00 is the finest. Full size sheets, 9 x 11 in. Weights, per quire, 1 to 3 lbs.			<b>85B2405</b> —Extra quality, emery cloth. Durable and rapid cutting. 24 sheets to a quire. No. 00 is the finest. Weights, per quire, range 1 1/2 to 3 lbs. Full size sheets, 9 x 11 in.		
No. Grit	Half Ream (240) Sheets	Per Quire (24 Sheets)	Grit No.	Per Quire (24 Sheets)	Per Sheet
00	\$1.25	\$0.14	00	\$0.55	\$0.03
0	1.25	.14	0	.55	.03
1	1.25	.14	1	.57	.03
1 1/2	1.45	.16	1 1/2	.60	.03
2	1.55	.18	2	.62	.03
2 1/2	1.65	.20	2 1/2	.66	.04
3	1.90	.22			

### ASSORTED SAND PAPER AND EMERY CLOTH

**85B2402**—An assorted package of best flint sand paper and emery cloth. Ten sheets in all. Weight, 10 oz. Per package.....**15c**



**85B2410**—A tough compact rubber-like substance that will remove rust from steel or iron, in a rapid and thorough manner. Size, 1 1/2 x 2 1/2 in. Wt., each, 2 oz. Each....**9c** Per doz.....**90c**

## FOOT POWER TURNING LATHES

### GOODSELL TURNING LATHE



A fine, first-class lathe for a amateur use. The cast iron drive wheel has two grooves to give a change of speed, and the belt runs from it to a cast iron cone pulley on the lathe head. The lathe head is furnished with a 2-in. face plate, a spur center, a screw center, an emery wheel, 4x3/4 in., and a steel drill chuck for holding round shank twist drills up to 1/2-in. diameter. The tail stock has a screw-feed center, which can be secured at any point by means of the clamp. Lathe is also supplied with a long and short tool rest, 5 turning tools, wrench and drill points, all of high quality steel. Length of cast iron bed, 24 in. Distance between centers, 13 1/2 in. Swing of lathe, 5 in.

Furnished with or without detachable Scroll Saw attachment. **185B174**—Without Scroll Saw attachment. Shipping wt., 70 lbs. Each.....**\$8.75**

**185B175**—With Scroll Saw Attachment, having table and blower and 12 saw blades. Shipping weight, 78 lbs. Each....**\$10.50**

### COMPANION TURNING LATHE



Same size as the Goodsell Lathe, but not so highly finished. Is a first-class machine at a moderate price. The frame is cast iron. We include with each machine, 1 tool rest, 3 turning tools, wrench and drill points. All are steel. **185B176**—Companion Lathe only. Without Scroll Saw attachment. Shipping weight, 65 lbs. Each.....**\$7.25**

**185B177**—Companion Lathe. With removable Scroll Saw attachment, and 12 blades. Complete with table and blower. Shipping weight, 78 lbs. Each.....**\$8.95**

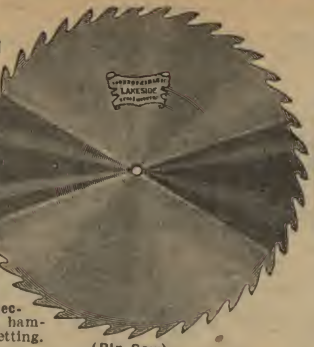
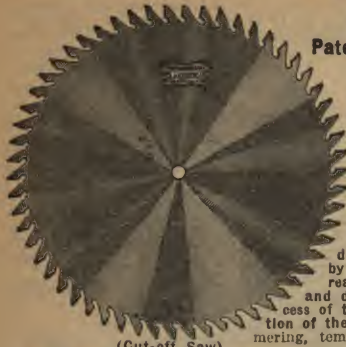


# LAKE SIDE CIRCULAR STEEL SAWS

# ECLIPSE CORDWOOD SAWS

## CRUCIBLE STEEL Patent Ground and Tempered

LAKE SIDE SOLID TOOTH CIRCULAR SAWS REPRESENT THE HIGHEST DEGREE OF EXCELLENCE AND SUPERIORITY IN SAWMAKING. Made from the finest grade of crucible steel, patent ground and tempered, and in toughness, elasticity, workmanship, and durability they are excelled by none. Set and sharpened ready for use. The greatest care and diligence is taken in each process of their manufacture, from the selection of the raw material to the smithing, hammering, tempering, grinding, filing and setting.



Each process is under the direct supervision of an expert, and before leaving the factory each saw is given a final test and inspection, thus securing the absolute perfection of our product. We list and carry in stock for immediate shipment saws in standard gauges and regular sizes of holes, but can supply special gauges and odd size holes as promptly as anyone. It usually takes from 10 to 30 days to make up special saws at the factory. Prices on larger saws and inserted tooth saws named on application. We save you from 25 to 50 per cent over usual retail prices.

### LAKE SIDE HIGH SPEED SAWS

185B260—Lake Side Circular Cut-off Saws.  
185B261—Lake Side Circular Rip Saws.

Prices are for saws set and sharpened ready for use. Be sure to give size of hole.

Diam. Inches	Thickness Gauge	Size Hole Inches	Approximate Ship. Weight	Price Each
4	19	3/4	3 oz.	\$0.40
5	19	3/4	4 oz.	.55
6	18	3/4	7 oz.	.65
7	18	3/4	8 oz.	.75
8	18	3/4	12 oz.	.88
9	17	3/4	1 lb.	1.00
10	16	1	1 1/2 lb.	1.20
11	16	1	1 1/2 lb.	1.40
12	15	1	3 1/2 lb.	1.55

Diam. Inches Thickness Gauge Size Hole Inches Approximate Ship. Weight Price Each

14	14	1 1/2	3 1/2 lb.	\$ 1.85
16	14	1 1/2	6 1/2 lb.	2.28
18	14	1 1/2	6 1/2 lb.	2.80
20	14	1 1/2	10 1/2 lb.	3.32
22	12	1 1/2	12 1/2 lb.	4.00
24	10	1 1/2	16 1/2 lb.	4.75
26	10	1 1/2	20 lb.	5.60
28	10	1 1/2	23 1/2 lb.	6.50
30	10	1 1/2	28 lb.	7.35
32	9	1 1/2	33 lb.	8.40
34	9	1 1/2	33 lb.	9.45
36	9	1 1/2	51 lb.	10.85

We carry in stock for prompt shipment, all sizes up to and including 36 in., but can furnish larger sizes up to 76 in. from factory, on short notice. Prices on application.

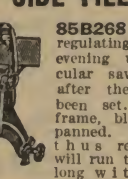
185B264—These popular low speed saws are giving excellent satisfaction on pole sawing and cordwood machines, and for similar rough work. They have our Special Cordwood Cross-cut Tooth, and are made from better steel than most of the cordwood saws now on the market, and are correctly tempered, filed and set ready for use. (For high speed sawing and smooth cutting we recommend our famous Lake Side Circular Saws.) Made of finest crucible steel, of which there are thousands in daily use. Our Eclipse Cordwood Saws are made cross-cut only. Made only in the sizes listed below (give diameter and hole).

Diam. Inches	Thickness Gauge	Ship. Weight lbs.	Size of hole in Saw, inches	1 1/4	1 1/2	1 3/4	2
20	13	9 1/2	\$2.38	\$2.39	\$2.40	\$2.41	
22	12	12	2.90	2.91	2.92	2.93	
24	11	16	3.40	3.41	3.42	3.43	
26	11	20	4.00	4.02	4.03	4.04	
28	10	25	...	...	4.65	4.66	
30	10	30	...	...	5.25	5.26	

We furnish Eclipse Saws in Cross-cut cordwood sizes only as listed above.



### SIDE FILE



185B268—For regulating and evening up circular saw teeth after they have been set. Iron frame, black japanned. A saw thus regulated will run twice as long with a cut sharpening. Size, 7x4 in. Weight, 1 1/2 lbs. Price, complete with one file, 65c.

### AUTOMATIC SAW GUMMER

185B290—Mixer's Self Feed Automatic Saw Gummer, for circular saws, mill saws and large cross-cut saws. Illustration shows the gummer in position for work on a large circular saw. It is adjustable, will cut the teeth at any desired angle, and has a positive automatic self-feed. We include with each machine steel arbor and three steel cutters: one each, 3/4, 1/2 and 1 in. one cutter grinder, and a wrench. Shipping weight, 32 lbs. Each, complete \$15.00

### EXTRA GUMMER CUTTERS

185B291—Extra cutters for Mixer's Gummer cutters. Sizes, 1/2 and 5/8 have 5/16 in. hole. The larger sizes have 1/2 in. hole, which is the standard size for our regular arbor, as sent with the gummer unless otherwise ordered. Weights, each, range from 1/2 oz. to 5 oz. Size inches . . . . . 1/2 5/8 3/4 1 1 1/2 1 3/4 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 10 1/2 11 11 1/2 12 12 1/2 13 13 1/2 14 14 1/2 15 15 1/2 16 16 1/2 17 17 1/2 18 18 1/2 19 19 1/2 20 20 1/2 21 21 1/2 22 22 1/2 23 23 1/2 24 24 1/2 25 25 1/2 26 26 1/2 27 27 1/2 28 28 1/2 29 29 1/2 30 30 1/2 31 31 1/2 32 32 1/2 33 33 1/2 34 34 1/2 35 35 1/2 36 36 1/2 37 37 1/2 38 38 1/2 39 39 1/2 40 40 1/2 41 41 1/2 42 42 1/2 43 43 1/2 44 44 1/2 45 45 1/2 46 46 1/2 47 47 1/2 48 48 1/2 49 49 1/2 50 50 1/2 51 51 1/2 52 52 1/2 53 53 1/2 54 54 1/2 55 55 1/2 56 56 1/2 57 57 1/2 58 58 1/2 59 59 1/2 60 60 1/2 61 61 1/2 62 62 1/2 63 63 1/2 64 64 1/2 65 65 1/2 66 66 1/2 67 67 1/2 68 68 1/2 69 69 1/2 70 70 1/2 71 71 1/2 72 72 1/2 73 73 1/2 74 74 1/2 75 75 1/2 76 76 1/2 77 77 1/2 78 78 1/2 79 79 1/2 80 80 1/2 81 81 1/2 82 82 1/2 83 83 1/2 84 84 1/2 85 85 1/2 86 86 1/2 87 87 1/2 88 88 1/2 89 89 1/2 90 90 1/2 91 91 1/2 92 92 1/2 93 93 1/2 94 94 1/2 95 95 1/2 96 96 1/2 97 97 1/2 98 98 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765 1/2 766 766 1/2 767 767 1/2 768 768 1/2 769 769 1/2 770 770 1/2 771 771 1/2 772 772 1/2 773 773 1/2 774 774 1/2 775 775 1/2 776 776 1/2 777 777 1/2 778 778 1/2 779 779 1/2 780 780 1/2 781 781 1/2 782 782 1/2 783 783 1/2 784 784 1/2 785 785 1/2 78



# FINE VALUES IN SAW SETS, MITRE BOXES, SAW VISES, ETC.

## LAKESIDE SAW SET

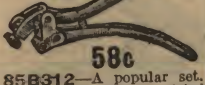


68c

**85B310**—Our Lakeside Saw Set with eccentric anvil and indicator, giving the number of teeth to the inch, enables you to always hold the set in your saw. The lever is placed below the body of the Saw Set where it is operated by the fingers only, doing away with the motion of the entire hand. For all kinds of hand saws. The Revolving anvil covers the required bevel and length of all saw teeth, ranging from 4 to 16 points to the inch. The figures on the dial indicate the number of teeth to the inch.

Highly nickel-plated. Hardened anvil and plunger, tempered steel spring. Length, 7 in. Malleable handles. Weight, 13 oz. Each..... **68c**

## TAINTOR'S POSITIVE SAW SET



58c

**85B312**—A popular set. Made of steel, nickel plated. The face of the anvil opposite the punch determines the set of the saw. The anvil has ten faces, divided into sections marked F, M, and C, indicating the faces to be used in setting fine, medium and coarse teeth. Length, 6 in. Weight, 3 oz. Regular 75c retail value. Each..... **58c**

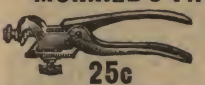
## MORRILL'S SPECIAL SAW SET



75c

**85B315**—An improvement over the popular No. 85. Suitable for all kinds of hand saws. The under handle is the lever handle, giving a firm, steady grip. Gauge screw is fitted with a locknut. Dial numbered from 4 to 14. Malleable iron handles. Length, 8 in. Weight, 11 oz. Each..... **75c**

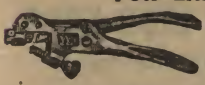
## MORRILL'S PATTERN SAW SET



25c

Weight, 10 oz. Each..... **25c**

## GENUINE MORRILL'S SAW SETS FOR LARGE SAWS



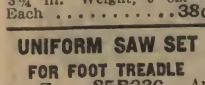
**85B324**—Size 3. Length, 9 1/2 in. For single tooth, cross-cut and circular saws from 20 to 14 gauge. Wt., 1 1/4 lbs. Each..... **98c**

**85B325**—Size 4. Length, 9 1/2 in. For Champion or M-tooth cross-cut saw, from 22 to 14 gauge. Wt., 1 1/4 lbs. Each..... **98c**

**85B326**—Size 3, for saws from 20 to 14 gauge. Wt., 1 1/4 lbs. Each..... **53c**

**85B327**—Size 4, for saws 22 to 14 gauge. Wt., 1 1/4 lbs. Each..... **53c**

## AIKIN PATTERN SAW SET



**85B330**—Hammer Saw Set. Forged steel. Length, 3 1/2 in. Weight, 9 oz. Each..... **38c**

## UNIFORM SAW SET FOR FOOT TREADLE



**85B336**—An adjustable spring hammer gives each tooth an equal blow. Adjustable for angle of set. Cast iron frame with steel plunger and anvil. White nickel finish. Height, about 7 1/2 in. Wt., 1 1/2 lbs. With-out treadle. Each, **\$1.10**

## GOODSELL-PRATT SAW SET



56c

**85B313**—Steel anvil and jaw. Finely tempered. With malleable iron handles. White nickel finish. Has an adjustable gauge and is one of the most practical saw sets on the market. Length, 8 in. Weight, 1 lb. Each..... **56c**

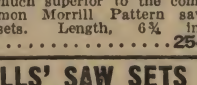
## NICKEL PLATED SAW SET



35c

**85B320**—The lever is on the lower side, operated by moving the fingers only, thus doing away with the motion of the entire hand. Hardened anvil and plunger. Malleable iron handles. Well made and handsomely nickel plated. Length, 7 in. Weight, 11 oz. Each..... **35c**

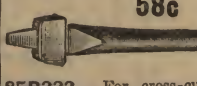
## GENUINE WHITING SAW SET



58c

**85B332**—For cross-cut saws only. Forged steel. A popular tool with many lumbermen. Length, 3 1/2 in. Wt., 3 oz. Each..... **58c**

## WHITING PATTERN SAW SET



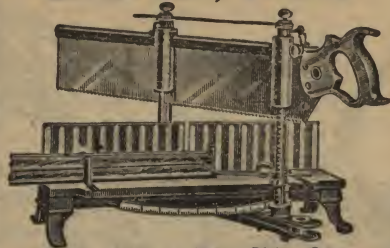
**85B333**—For cross cut saws only. Forged steel, tempered and polished. Length, 3 1/2 in. A popular tool at a low price. Weight, 3 oz. Each..... **29c**

## DOWELING MACHINES, \$4.00



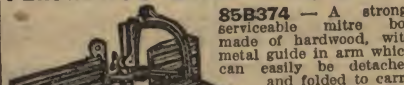
**185B1220**—Goodell-Pratt machine for the accurate boring of dowel holes. The illustration shows the graduation by which the height of the gauge block can be readily determined. This gauge block is provided with holes 1/4, 3/8, 1/2, 5/8 and 3/4 in., and can be set at any desired point. The face of the machine is provided with a graduated strip running 7 in. each direction from the center. \$5.00 retail value. Shipping wt., 14 lbs. Each..... **\$4.00**

## STANLEY PERFECT MITRE BOX, \$10.50



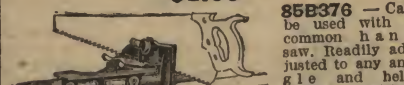
With 28 1/2-inch Henry Diston Saw.  
**185B370**—Stanley's No. 358. Used for sawing square ends or any angles, or duplicate lengths from boards, moldings, etc. Built with the greatest care, strong and durable. It embodies many exclusive and important features which appeal strongly to the user. Back and Frame, graduated Quadrant and Swivel Arm bearing are in one piece, accurately machined. Quadrant is accurately graduated. Detachable malleable Legs. No play in Swivel Arm. Can be clamped at any point. Swivel Arm has Second Socket for front saw guide, permitting use of a shorter saw or a much longer stroke with the regular saw. Saw Guide Uprights are steel rods, holding the saw guide cylinders, and may be adjusted to hold the saw without side play. Automatic Catches at the top of saw guides. Movable Stops for regulating depth of cut. A Removable Tie Bar gives great rigidity. Two Adjustable Spurs in the back hold work from slipping. Narrow Opening in the back of the frame is especially valuable for narrow work. Iron frame. Japanned finish. Length, 20 1/2 in. Width, 4 1/2 in. Capacity, Right Angle, 2 1/2 in. Mitre 45, 6 1/2 in.; 30 degrees without guide, 4 1/2 in. Wt. With 28 1/2 in. fitted Henry Diston saw. Ship. Wt., 35 lbs. Each..... **\$10.50**

## PERFECTION MITRE BOX, \$1.95



**85B374**—A strong, serviceable mitre box made of hardwood, with metal guide in arm which can easily be detached and folded to carry in tool chest. Can be instantly held at any angle wanted. Any saw may be used, either a back saw, panel or hand saw. Price does not include saw. Weight, 7 1/2 lbs. Each..... **\$1.95**

## STEARNS' FOLDING MITRE BOX \$2.00



**85B376**—Can be used with a common hand saw. Readily adjusted to any angle and held firmly in position by a spring catch. When folded, it is easily carried about, making it very convenient for general work. Cast iron. Size when folded, 8 1/2 x 3 1/2 x 2 1/2 in. Weight, 3 1/4 lbs. Price does not include saw. Each..... **\$2.00**

## MITRE BOX AND SAW



**85B378**—Hardwood Mitre Box. Length, 12 in. Width, 2 1/2 in. Height, 2 1/2 in. Inside, Complete with 12 in. back saw. Weight, 3 1/2 lbs. Regular \$1.25 value. Box and saw complete. Per set..... **88c**

## CABINET MAKERS' BENCH



**185B2840**—The front part of top, made of seasoned hard maple glued in strips to prevent warping; width, 18 in. and 2 1/2 in. thick. The back part of top, which is recessed below level of front, is of white wood. The bench and tail screws are of selected stock diameter, 2 1/2 in.; length, 24 in. The legs are of solid maple, strongly mortised and bolted. Length, 6 1/2 ft. Width, 24 in. Height, 32 in. Shipping weight, 174 lbs. Shipped knocked down, to take a low freight rate. Easily put together. Each..... **\$9.85**

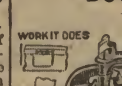
SEE No. 85B395 for suitable bench stop, not included in price of bench.

## HANDY BENCH DOG, STANLEY NO. 202



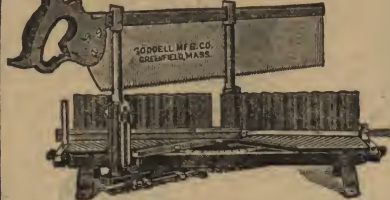
**85B396**—A very convenient little tool for holding work in place on a bench. Malleable iron with well sharpened points, which are simply driven into top of bench. Blued finish. Length, 3 1/2 in. Wt., 1/2 lb. Each..... **12c**

## DOWELING JIG, \$1.40



**85B386**—For quickly and accurately boring Dowel Holes in edge, end or surface of work. Capacity up to 3 in. Also a good bit guide for mortising. With five steel guides, length, 1 1/4 in. One each, 1/4, 3/8, 1/2, 5/8, 3/4 in. Wt. With depth gauge. Made entirely of metal. Nickel plated. Shipping weight, 1 1/2 lbs. Each..... **\$1.40**

## GOODSELL STEEL MITRE BOX \$9.90



Made entirely of Wrought Steel. Will not break—a feature which will be appreciated by all mechanics. Has Steel bottom plate with angular serratures. The arms can be instantly set and locked at any angle. Has a graduated arc in front, with the various degrees plainly marked. Fitted with automatic stops to hold up the saw, allowing the operator to use both hands in placing the work. The guides are made long, thus holding the saws very steadily when raised to the extreme height. Will take work 10 1/2 in. wide at right angles, and 7 1/4 in. at mitre. Total length of bed, 21 in. A strictly first-class mitre box. Complete with extra angle attachment by which the angle can be increased above 45 degrees, and a gauge, for sawing duplicates. Prices include a high grade saw. Saws are measured the extreme length of the blade, not by the toothed edge.

**185B366**—With Saw 26 by 4 in. Ship. Weight, 26 lbs. Each..... **\$9.90**  
**185B367**—With Saw 28 by 5 in. Ship. Weight, 30 lbs. Each..... **\$10.95**  
**185B368**—With Saw 30 by 5 in. Ship. Weight, 35 lbs. Each..... **\$11.15**  
**185B369**—With Saw 30 by 6 in. Ship. Weight, 35 lbs. Each..... **\$12.60**

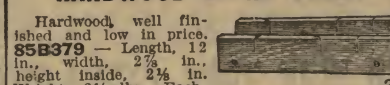
## LANGDON ACME MITRE BOX \$8.25



Strictly high grade. Made of iron and steel. Nickel trimmings. Has steel bottom plate roughened to prevent slipping. Extra long guides with automatic catch which holds the guides suspended, or releases them instantly as desired. Thumb lever locks the saw supports at any angle. Supporting guides for holding work in place, which guides are also used where angles more acute than 45 degrees are desired. Has a length gauge for duplicate lengths, a depth guide, and a graduated arc and index plate showing degrees. Saws are measured extreme length of blade (not by the toothed edge).

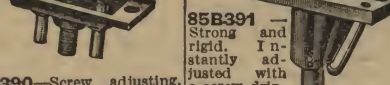
**185B360**—Langdon Acme Mitre Box No. 68, with Disston Saw, 22 in. by 4 in. Will take work 7 1/4 in. wide at right angles and 5 in. at mitre. Shipping weight, 23 lbs. Each..... **\$8.25**  
**185B362**—Langdon Acme Mitre Box No. 73, with Disston Saw, 26 in. by 4 in. Will take work 10 1/2 in. wide at right angles and 7 in. at mitre. Shipping weight, 34 lbs. Each..... **\$9.65**  
**185B363**—Langdon Acme Mitre Box No. 74, with Disston Saw, 28 in. by 5 in. Will take work 10 1/2 in. wide at right angles and 7 in. at mitre. Shipping weight, 35 lbs. Each..... **\$10.75**

## HARDWOOD MITRE BOXES



Hardwood, well finished and low in price.  
**85B379**—Length, 12 in., width, 2 1/2 in., height, 2 1/2 in. Inside, Complete with 12 in. back saw. Weight, 3 1/2 lbs. Each..... **25c**  
**85B380**—Length, 18 in., width, 3 1/2 in., height, 2 1/2 in. Inside, Complete with 12 in. back saw. Weight, 4 1/2 lbs. Each..... **38c**

## BENCH STOP



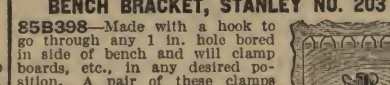
**85B390**—Screw adjusting. Reversible steel plate may be raised up to 1 1/2 in. Weight, 13 9 oz. Each..... **27c**

## BENCH STOP



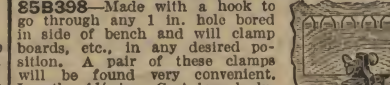
**85B392**—Reversible double faced bench stop. Made of steel. Weight, 1/2 lb. Each..... **28c**

## BENCH STOP



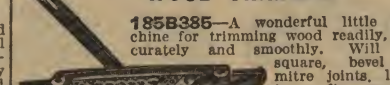
**85B394**—Adjustable, Reversible four-faced bench stop. Made of steel. Weight, 8 oz. Each..... **40c**

## BENCH BRACKET, STANLEY NO. 203



**85B398**—Made with a hook to go through any 1 in. hole bored in side of bench and will clamp boards, etc., in any desired position. A pair of these clamps will be found very convenient. Length, 4 1/2 in. Cast iron body, japanned. Nickel plated steel clamp screw. Wt., 1 lb. Each..... **23c**

## WOOD TRIMMER



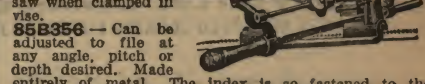
**185B385**—A wonderful little machine for trimming wood readily, accurately and smoothly. Will cut square, bevel or mitre joints, leaving a fine smooth surface. Will butt off the ends of siding, flooring, casing, moldings, etc., at any angle. Strong and well made, with high grade steel cutting knives. Length of cut, 7 in. Height of cut, 4 in. Shipping weight, 32 lbs. Each..... **\$11.75**

## LAKESIDE SAW FILING GUIDE AND VISE



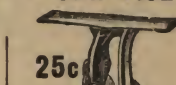
**85B354**—Has a rubber faced jaw, which prevents noise and vibration and a ball and socket joint connecting vise and clamp which allows easy adjustment. The guide can be set at any position to secure any angle, pitch, or depth. Enables any one without previous experience to file a saw accurately. Length of jaw, 10 1/2 in. Steel guide bar, 16 in. Finely finished. Shipping weight, 10 1/2 lbs. Complete with file and directions. Each..... **\$1.55**

## SAW FILING GUIDE



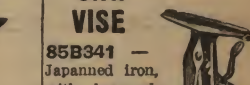
Slotted to slip on saw when clamped in vise.  
**85B356**—Can be adjusted to file at any angle, pitch or depth desired. Made entirely of metal. The index is so fastened to the bar that when the saw is turned in the vise the same angle is obtained in filing the opposite side. Nicely finished in white; nickel plated. Price is for guide and file only (vise is not included). Weight, 2 1/2 lbs. Each..... **56c**

## SAW VISE



**85B340**—Japanned iron. Width of jaws, 9 in. Weight, 3 1/4 lbs. Each..... **25c**

## SAW VISE



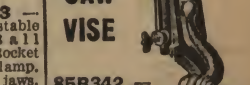
**85B341**—Japanned iron, with bench clamp. Holds saw at any angle. Width of jaws, 9 1/2 in. Wt., 5 lbs. Each..... **35c**

## SAW VISE



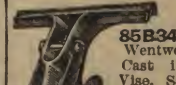
**85B343**—Adjustable iron Ball and Socket Saw Clamp. Width, 9 in. Wt., 8 1/2 lbs. Each..... **52c**

## SAW VISE



**85B342**—Japanned iron, with bench clamp, adjustable to any angle. Jaws are ground to an accurate rate fit. Width, 9 in. Weight, 6 lbs. Each..... **42c**

## SAW VISE



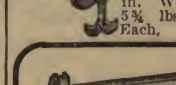
**85B346**—Wentworth's Cast Iron Vise, Size 3. Jaw faced with rubber. Length, 12 in. Width of jaw, 10 1/2 in. Weight, 5 1/2 lbs. Each..... **58c**

## SAW VISE



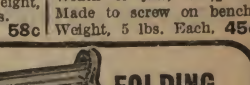
**85B345**—Size 1. Wentworth's Cast Iron Vise, has rubber cushion jaw. Width of jaw, 10 1/2 in. Made to screw on bench. Weight, 5 lbs. Each..... **45c**

## SAW VISE



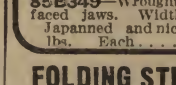
**85B349**—Wrought steel, lever clamping, rubber faced jaws. Width, 12 in. Clamps to bench. Japanned and nickel plated. Shipping wt., 2 1/2 lbs. Each..... **65c**

## SAW VISE



**85B345**—Size 1. Wentworth's Cast Iron Vise, has rubber cushion jaw. Width of jaw, 10 1/2 in. Made to screw on bench. Weight, 5 lbs. Each..... **45c**

## FOLDING STEEL SAW VISE



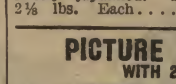
**85B348**—Light and very strong. Folds compact. Width, 14 in. Attached to bench by drive hooks. Nicely japanned. Shipping weight, 2 1/2 lbs. Each..... **62c**

## FOLDING STEEL SAW VISE



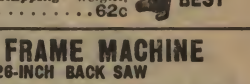
**85B349**—Wrought steel, lever clamping, rubber faced jaws. Width, 12 in. Clamps to bench. Japanned and nickel plated. Shipping wt., 2 1/2 lbs. Each..... **65c**

## FOLDING STEEL SAW VISE



**85B348**—Light and very strong. Folds compact. Width, 14 in. Attached to bench by drive hooks. Nicely japanned. Shipping weight, 2 1/2 lbs. Each..... **62c**

## FOLDING STEEL SAW VISE



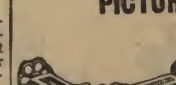
**85B349**—Wrought steel, lever clamping, rubber faced jaws. Width, 12 in. Clamps to bench. Japanned and nickel plated. Shipping wt., 2 1/2 lbs. Each..... **65c**

## PICTURE FRAME MACHINE WITH 26-INCH BACK SAW



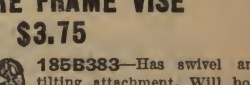
**185B382**—Combined Mitre Machine and Picture Frame Vise. Will securely hold mouldings on any shape. Frame can be cut from front or back as desired, and can be held in a horizontal or vertical position. Has a rule and measure gauge to measure and gauge from either side of the machine. Swivel and tilting attachments permit adjusting to any position. Packed complete with a 26-in. extra quality mitre saw. Wt., 20 lbs. Shipping wt., 36 lbs. Price..... **\$9.75**

## PICTURE FRAME VISE



**185B383**—Has swivel and tilting attachment. Will hold any kind of moulding up to 4 inches. Meets all the demands of a frame vise, carefully made and will prove satisfactory. Ship. wt., 12 lbs. \$5.00 retail value. Each..... **\$3.75**

## PICTURE FRAME VISE



**185B383**—Has swivel and tilting attachment. Will hold any kind of moulding up to 4 inches. Meets all the demands of a frame vise, carefully made and will prove satisfactory. Ship. wt., 12 lbs. \$5.00 retail value. Each..... **\$3.75**

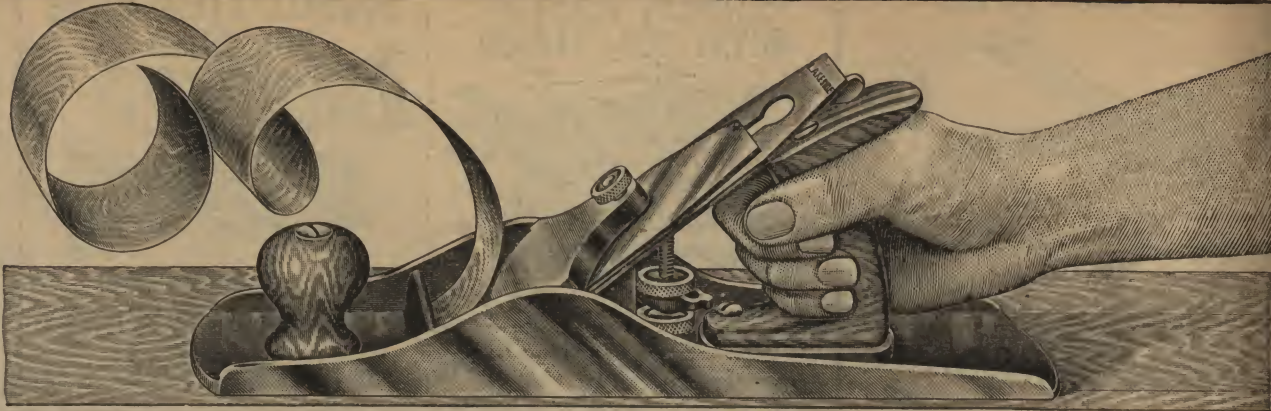


# LAKE SIDE PERFECT BENCH PLANES

## LAKE SIDE IRON PLANES

Lakeside Bench planes are strictly high grade, and finely finished. Every care is taken to preserve their high standard of excellence, and to make them reliable tools that shall be unsurpassed. Cutters are of best quality tool steel, in just the right thickness. They are thin enough to be easily sharpened by honing or grinding, and thick enough to totally overcome all tendency to chatter in the hardest woods. This feature is a distinct advantage, and one fully appreciated by the expert workman. Cutter is adjustable endwise and sidewise.

Each plane is carefully inspected and tested and we offer our Lakeside planes to you with the full assurance that there are no better tools on the market. You take no risk when you buy a Lakeside plane. We know you will be pleased.



## PERFECT LAKE SIDE X IRON PLANES WITH IMPROVED LOCKING LEVER ADJUSTMENT. BEST STEEL CUTTERS



Note—Smooth and Grooved Bottom, both the same price.

Style of Plane	Length in.	Width of Cutter in.	Average Wt., lbs.	Smooth Bottom	Grooved Bottom	Price each
Smooth No. X 3	8	1 1/2	3 1/2	85B420	85B428	\$1.25
Smooth No. X 4	9	2	4 1/2	85B421	85B429	1.40
Jack No. X 5	14	2 1/2	5 1/2	85B422	85B430	1.60
Jack No. X 5 A	15	3 1/4	6 1/2	85B423		1.80
Fore No. X 6	18	3 1/2	7 1/2	85B424	85B431	2.00
Jointer No. X 8	23 1/2	4 1/2	9 1/2	85B425	85B433	2.75

## EXTRA PLANE IRONS OR CUTTERS

To fit planes shown above. Always give catalogue number and size of plane in which the iron is to be used. Steel cutter.

85B435—Single Irons. Wt., 5 to 8 oz.	Size 1 1/2 in. 1 3/4 in. 2 in. 2 1/4 in. 2 1/2 in.	Each 17c 18c 19c 20c 22c	85B436—Double Irons. Wt., 8 to 12 oz.	Size 2 in. 2 1/4 in. 2 1/2 in. 2 3/4 in. 3 in.	Each 31c 33c 34c 35c 40c
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## FAMOUS LAKE SIDE ADJUSTABLE IRON PLANES WITH IMPROVED LATERAL ADJUSTMENT. BEST STEEL CUTTERS



Note—Smooth and Grooved Bottom, both the same price.

Style of Plane	Length in.	Width of Cutter in.	Average Wt., lbs.	Smooth Bottom	Grooved Bottom	Price each
Smooth No. 2	7	1 1/2	2 1/4	85B440		\$1.10
Smooth No. 3	8	2	3 1/4	85B441	85B450	1.20
Smooth No. 4	9	2 1/2	4 1/4	85B442	85B451	1.30
Smooth No. 4 1/2	10	3 1/4	5 1/4	85B443		1.50
Jack No. 5	14	3 1/2	6 1/4	85B444	85B452	1.50
Jack No. 5 A	14 1/2	4 1/4	7 1/4	85B445	85B453	1.65
Fore No. 6	18	4 1/2	8 1/4	85B446	85B454	1.90
Jointer No. 7	22	5 1/2	9 1/4	85B447	85B455	2.20
Jointer No. 8	24	6 1/2	10 1/4	85B448	85B456	2.60

## EXTRA PLANE IRONS OR CUTTERS

To fit planes No. 85B440 to 85B456 as above. Always give the catalogue number and size of plane in which the iron is to be used. Steel cutter.

85B460—Single Irons. Wt., 4 to 8 oz.	Size 1 1/2 in. 1 3/4 in. 2 in. 2 1/4 in. 2 1/2 in.	Each 14c 15c 16c 19c 20c	85B461—Double Irons. Wt., 6 to 14 oz.	Size 2 in. 2 1/4 in. 2 1/2 in. 2 3/4 in. 3 in.	Each 24c 27c 30c 35c 38c 42c
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## NEW BUCKEYE PLANES SMOOTH BOTTOM



Cap plate is removable with the bit. Bit can be instantly replaced to cut the same thickness of shaving. The single adjusting screw has four actions. Adjusts the cutter up and down, and to right and left. Steel cutter will not chatter. Will clean up veneer work perfectly. Planes are made of cast iron, Japanned finish, with polished sides. Nickel plated screw and cap. With varnished hardwood handles.

Style of Plane	Length in.	Cutter in.	Weight lbs.	Number	Each
Smooth Plane	9 1/2	2	2 1/2	85B457	\$1.65
Jack Plane	14	2 1/2	4	85B458	2.00
Fore Plane	18	3 1/2	6	85B459	2.50

## BAILEY IRON PLANES SMOOTH OR GROOVED BOTTOM

Made by the Stanley Rule and Level Co.

English steel cutters, adjustable endwise and sidewise.

Smooth or grooved bottom both the same price.



Style of Plane	Length in.	Width of Cutter in.	Average Wt., lbs.	Smooth Bottom	Grooved Bottom	Price each
Smooth No. 2	7	1 1/2	2 1/4	85B480		\$1.33
Smooth No. 3	8	2	3 1/4	85B481	85B490	1.47
Smooth No. 4	9	2 1/2	4 1/4	85B482	85B491	1.61
Smooth No. 4 1/2	10	3 1/4	5 1/4	85B483	85B492	1.84
Jack No. 5	14	3 1/2	6 1/4	85B484	85B493	1.85
Jack No. 5 1/2	15	4 1/4	7 1/4	85B485	85B494	2.07
Fore No. 6	18	4 1/2	8 1/4	85B486	85B495	2.38
Jointer No. 7	22	5 1/2	9 1/4	85B487	85B496	2.70
Jointer No. 8	24	6 1/2	10 1/4	85B488	85B497	3.23

## EXTRA CUTTERS Fitting Bailey and Red Rock Planes.

85B500—Single Steel Irons. Average wt., 3 to 6 oz.

Size	Each
1 1/2 in.	17c
1 3/4 in.	17c
2 in.	18c
2 1/4 in.	22c
2 1/2 in.	22c
2 3/4 in.	24c

85B501—Double Steel Irons. Average wt., 5 to 11 oz.

Size	Each
1 1/2 in.	30c
1 3/4 in.	30c
2 in.	33c
2 1/4 in.	37c
2 1/2 in.	39c
2 3/4 in.	42c

## STANLEY BED ROCK PLANES GROOVED BOTTOM

Made by the Stanley Rule and Level Co.

A high grade tool for fine work on all woods. English steel cutters, adjustable sidewise and endwise. We furnish with Grooved Bottom only.



Style of Plane	Length in.	Width of Cutter in.	Average Wt., lbs.	Number	Price Each
Smooth No. 603C	8 1/2	1 1/2	3 1/2	85B470	\$1.65
Smooth No. 604C	9	2	4	85B471	1.75
Jack No. 605C	14 1/2	2 1/2	5 1/2	85B472	2.10
Jack No. 605 1/2 C	15	3 1/4	6 1/2	85B473	2.25
Fore No. 606C	18 1/2	3 1/2	7 1/2	85B474	2.55
Jointer No. 607C	22 1/2	4 1/2	9 1/2	85B475	3.00
Jointer No. 608C	24	5 1/2	10	85B476	3.55

## LAKE SIDE WOOD PLANES WITH IRON TOPS WITH SCREW AND LATERAL ADJUSTMENT. BEST QUALITY CUTTERS SPLENDID VALUES



Style of Plane	Length in.	Width of Cutter in.	Average Wt., lbs.	Number	Price each
Smooth No. 24	8	1 1/2	2 1/4	85B510	\$0.75
Smooth No. 25	8 1/2	2	3 1/4	85B511	.98
Jack No. 26	13 1/2	2 1/2	4 1/4	85B512	.90
Jack No. 27	15	3 1/4	5 1/4	85B513	1.00
Fore No. 28	20	3 1/2	6 1/4	85B514	1.15
Jointer No. 31	24	4 1/2	8 1/4	85B515	1.20
Jointer No. 33	28	5 1/2	10 1/4	85B516	1.30

## EXTRA CUTTERS OR PLANE IRONS

Fitting Lakeside Wood Bottom Planes, 85B510 to 85B524. Always give the catalogue number and size of plane in which the iron is to be used.

85B528—Single Steel Irons. Average weight, 4 to 7 oz.

Size	Each
1 1/2 in.	17c
1 3/4 in.	18c
2 in.	20c
2 1/4 in.	22c
2 1/2 in.	28c

85B529—Double Irons. Average weight, 7 to 11 oz.

Size	Each
1 1/2 in.	31c
1 3/4 in.	35c
2 in.	37c
2 1/4 in.	40c
2 1/2 in.	45c

## LAKE SIDE WOOD PLANES WITH IRON TOPS LEVER ENDWISE ADJUSTMENT. BEST QUALITY CUTTERS



Style of Plane	Length in.	Width of Cutter in.	Average Wt., lbs.	Number	Price each
Smooth No. 509	8	1 1/2	2 1/4	85B520	\$0.80
Smooth No. 515	8 1/2	2	3 1/4	85B521	.80
Jack No. 537	15	2 1/2	4 1/4	85B522	.82
Fore No. 539	20	3 1/2	6 1/4	85B523	.80
Jointer No. 542	26	4 1/2	8 1/4	85B524	1.00

## LAKE SIDE ADJUSTABLE BLOCK 70c PLANES



Improved Throat Adjustment. Steel cutter. For fine or coarse work. New lateral adjustment. Cutter, 1 1/2 in.

85B540—Lakeside No. 95. Nickel plated. Length, 6 in. Wt., 1 1/4 lbs. Each .70c

85B542—Lakeside No. 97. Japanned trimmings. Length, 6 1/4 in. Wt., 1 1/2 lbs. Each .75c

85B544—Lakeside No. 155. Nickel plated. Length, 6 in. Wt., 1 1/4 lbs. Each .75c

## LAKE SIDE KNUCKLE JOINT PLANES 75c



The Knuckle Joint in the Cap is a lever which clamps the cutter securely in position. Adjustable throat. Steel cutter. All improvements. Nickel plated trimmings. Cutter, 1 1/2 in. Average weight, 1 1/4 and 1 1/2 lbs.

85B548—Lakeside No. 138. Length, 6 1/4 in. Each .75c

85B550—Lakeside No. 139. Length, 6 1/2 in. Each .78c

## STANLEY KNUCKLE JOINT PLANES 93c



The Knuckle Joint in the Cap is a lever which clamps the cutter securely in position. Improved throat and cutter adjustment. Steel cutter. Nickel plated trimmings. Cutter, 1 1/2 in. Average wt., 1 1/4 lbs.

85B552—Stanley No. 18. Length, 6 1/4 in. Each .93c

85B554—Stanley No. 19. Length, 7 in. Each \$1.00

## LAKE SIDE LOW ANGLE BLOCK PLANES 64c



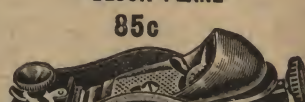
Cutter at low angle, for working across grain. All improvements. Steel cutter.

85B558—Lakeside No. 85. Japanned trimmings. Length, 6 in. Cutter, 1 1/2 in. Average weight, 1 1/4 lbs. Each .64c

85B560—Lakeside No. 87. Nickel plated. Same size. Each .70c

85B562—Lakeside No. 88. Nickel plated. Length, 7 in. Cutter, 1 1/2 in. Average weight, 1 1/4 lbs. Each .75c

## STANLEY LOW ANGLE BLOCK PLANE 85c



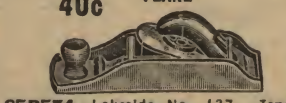
85B564—Stanley No. 60. Nickel plated. Cutter is set at a very low angle, a great advantage when working across the grain. Improved steel cutter and throat adjustments. Length, 6 in. Cutter, 1 1/2 in. Average wt., 1 1/4 lbs. Each .85c

## STANLEY HEAVY LOW ANGLE BLOCK PLANE \$2.00



85B570—Stanley No. 62. Japanned finish. Polished sides. For cutting across the grain on heavy work. For use with both hands. Rosewood handle and knob. Cutter is set at a very low angle. Adjustable throat for hard or soft wood. Adjustable steel cutter. Average length, 14 in. Width cutter, 2 in. Wt., 4 lbs. Each \$2.00

## LAKE SIDE DOUBLE END BLOCK PLANE 40c



85B574—Lakeside No. 137. Japanned finish. With two cutter seats. Can be used as a block plane, or by reversing the position of the steel cutter, it can be used to plane close up into corners, or places difficult to reach with any other plane. Throat is not adjustable. Length, 8 in. Width cutter, 1 1/2 in. Average wt., 1 1/2 lbs. Each .40c

## LAKE SIDE IRON BLOCK PLANE 38c



85B578—Lakeside No. 227. Japanned finish. Steel cutter has screw adjustment. Length, 7 in. Width, 1 1/2 in. Wt., 1 1/2 lbs. Each .38c

## LAKE SIDE IRON BLOCK PLANE 39c



85B580—Lakeside No. 120. Japanned finish. Steel cutter has lever adjustment. Length, 6 1/2 in. Width, 1 1/2 in. Wt., 1 1/2 lbs. Each .39c

## LAKE SIDE IRON BLOCK PLANE 28c



85B584—Lakeside No. 103. Japanned finish. Steel cutter has lever adjustment. Length, 5 1/2 in. Width, 1 1/2 in. Wt., 1 1/2 lbs. Each .28c

## LAKE SIDE IRON BLOCK PLANE 22c



85B586—Lakeside No. 102. Japanned finish. Steel cutter has no adjusting device. Length, 5 1/2 in. Width, 1 1/2 in. Wt., 1 1/2 lbs. Each .22c

## LAKE SIDE IRON BLOCK PLANE 13c



85B590—Lakeside No. 100. Japanned finish. Steel cutter has no adjusting device. Length, 3 1/2 in. Width, 1 1/2 in. Wt., 1 1/2 lbs. Each .13c



**TRAUT'S ADJUSTABLE PLOW NO. 48**  
\$3.75



**85B665**—Stanley No. 46 Iron adjustable Dado plow and Fillister plane. Two sections. 11 steel cutters, 8 steel plow bits,  $\frac{3}{16}$ ,  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$  and  $1\frac{1}{2}$  in.; a  $1\frac{1}{2}$  in. fillister cutter, a sliding tool and a  $\frac{3}{4}$  in. tongue tool. Wt., 5 lbs. Nickel finish. Each **\$3.75**

**85B666**—Extra steel cutters, per set (11 pieces). Wt., 1½ lbs. Each **\$1.55**


**LAKESIDE TONGUING AND GROOVING PLANE**  
**\$1.55**



Iron body. Two separate steel cutters. The fence can be swung around, covering one of the cutters and acting as a guide for grooving an exact match for the tongue. Two sizes. Nickel plated. Wt., 2½ lbs. **85B668**—For  $\frac{3}{4}$  to  $1\frac{1}{4}$  boards. Each **\$1.55**

**85B669**—For  $\frac{3}{8}$  to  $\frac{3}{4}$  boards. Each **\$1.55**

**COMBINATION PLANE**  
**STANLEY'S NO. 45**



**85B695**—Combines seven tools in one, and consists of iron main stock, and a sliding section so arranged that cutters of different widths can be used. Each plane is fitted with an adjustable fence, a depth gauge, and spurs for working across the grain. Can be used either right or left hand. This plane embraces: A beading and center beading plane, a rabbit and fillister plane, a dado, a plow, a match plane, a sash plane and a slitting plane. The face can be adjusted for center beading and for making a bead five inches from the edge of the board if desired. Each plane is accompanied by seven beading tools ( $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$  and  $1\frac{1}{2}$  in.); ten plow and dado bits ( $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{8}$ ,  $\frac{1}{4}$  and  $\frac{3}{16}$  in.); a slitting blade; a tongue tool,  $\frac{3}{4}$  in.; a sash tool,  $1\frac{1}{2}$  in. and Fillister Cutter,  $1\frac{1}{2}$  in. Wt., 8½ lbs. Nickel-plated finish. Complete (with 21 tools), each **\$5.95**

**EXTRA STEEL CUTTERS**  
**85B696**—Extra cutters for above plane. Wt., 2½ lbs. Per set (21 pieces) **\$2.65**


**NOTICE**  
The attachments mentioned below can be used with beading Slitting and Rabbit Plane No. 85B695, illustrated above but are not included in the set and are only furnished when ordered and at prices mentioned below.

**HOLLOWS AND ROUNDS**  
**85B697**—(Can be used only with plane 85B695.) These additional parts for working hollows and rounds can be attached to Plane No. 85B695, and will fit any plane of that style. The numbers given below correspond with the regular common hollows and rounds. Made of iron with steel bits. Wt., 2 lbs.  
Size No. 6. Width of cutter,  $\frac{1}{2}$  in. Works circle,  $\frac{1}{2}$  in. Per pair **\$1.10**  
Size No. 8. Width of cutter,  $\frac{3}{4}$  in. Works circle,  $\frac{3}{4}$  in. Per pair **1.10**  
Size No. 10. Width of cutter,  $1\frac{1}{4}$  in. Works circle,  $1\frac{1}{4}$  in. Per pair **1.10**  
Size No. 12. Width of cutter, 1 in. Works circle,  $1\frac{1}{2}$  in. Per pair **1.10**

**85B698**—Steel Cutters for Hollows and Rounds. Each (give size) **.15**

**NOSING TOOL**  
**85B699**—Nosing Tool,  $1\frac{1}{4}$ -inch steel cutter. Wt., 2 lbs. Each **.90**

**PATENT UNIVERSAL PLANE**  
**STANLEY'S NO. 55**  
A \$15.00 VALUE, **\$11.65**



**85B702**—In the hands of an ordinary carpenter, this iron tool takes the place of a full assortment of so-called fancy planes, and can be used for all lines of work covered by fancy planes. It is a Molding Plane, Match, Sash, Beading, Reeding, Fluting, Hollow, Round, Plow Rabbit and Fillister, Dado, Slitting and Chamfer Plane, combined in one. This plane is nickel-plated; the 52 steel cutters are arranged in four separate cases. The entire outfit is packed in a neat wooden box and consists of a main stock with two sets of transverse sliding arms; a depth gauge adjusted by a screw, and a sliding cutter with stop. Has a sliding section with a vertically adjustable bottom. The auxiliary center bottom is to be placed in front of the cutter as an extra support or stop when needed. This bottom is adjustable, both vertically and laterally. Two fences, one has a lateral adjustment by means of a screw, for extra fine work. The fences can be used on either side of the plane and the rosewood guides can be tilted to any desired angle up to 45 degrees by loosening the screw on the face. Fence can be reversed for center beading wide boards. An adjustable stop to be used in beading the edges of matched boards is inserted on left-hand side of sliding section. Packed in neat box. Wt., 14½ lbs. Complete, with 52 steel cutters, each **\$11.65**

**RABBIT PLANE AND FILLISTER**  
**\$1.15**



**85B656**—Stanley No. 78 Iron Plane. Has two seats for cutter, so that tool can be used for bull-nose rabbit if required and can be adjusted to make right or left hand fillister. Adjustable fence, depth gauge and spur for working across grain. The plane will lie perfectly flat on either side. Plane complete,  $8\frac{1}{2}$  in. long;  $1\frac{1}{2}$  in. steel cutter. Average wt.  $3\frac{3}{4}$  lbs. **\$1.15**

**STANLEY'S RABBIT PLANE**  
**80c**



Can be used right or left hand, and will lie perfectly flat on either side while planing into corners or against perpendicular surfaces. Has a depth gauge and steel cutter.

**RABBIT AND BLOCK PLANE**  
**\$1.00**



**85B675**—Stanley No. 140. Iron Plane. Has a detachable side to change it from a Block Plane to a Rabbit Plane or Vice versa. Length, 7 in. with  $1\frac{1}{2}$  in. steel skew cutter. Wt., 1½ lbs. Each **\$1.00**

**HAND BEADER**  
**68c**



**85B678**—Stanley No. 66. For beading, reeding, or fluting straight or irregular surfaces and for all kinds of light routing. Nickel-plated iron stock with seven steel cutters. Wt., 1½ lbs. Each **68c**

**85B679**—Extra blank steel cutter. Wt., 2 oz. Each **5c**

**ROUTER PLANE**  
**\$1.15** Closed Throat



**85B680**—Stanley No. 71½. To smooth the bottom of grooves, panels or any depressions below the general surface of any woodwork. Nickel-plated iron stock, with steel bits ( $\frac{1}{4}$ ,  $\frac{3}{8}$  in. and one pointed). Wt., 2½ lbs. Each **\$1.15**

**ROUTER PLANE**  
**\$1.45** Open Throat



**85B681**—Stanley No. 71. Iron Plane. Nickel-plated stock with steel bits,  $\frac{1}{4}$ ,  $\frac{1}{2}$  in. and one pointed. Complete with an attachment, which can be substituted for the collar that holds the cutter when the work requires a close throat. Wt., 2½ lbs. Each **\$1.45**

**LAKESIDE BULL-NOSE RABBIT PLANE**  
**23c**



**85B685**—Iron Rabbit Plane.  $4\frac{1}{2}$  in.; width of steel cutter, 1 in. Adjustable throat. Wt.,  $\frac{3}{4}$  lb. Each **23c**

**SIDE RABBIT PLANE**  
**70c**



**85B687**—Stanley No. 98. Iron Plane for side rabbeting and trimming dados, mouldings and grooves of all sorts. Steel cutter. Will work close up into corners. Length, 4 in. Wt., 10 oz. Each **70c**

**85B688**—Stanley Iron Side Rabbit Plane, No. 99. Steel cutter. Left hand. Each **70c**

**VENEER SCRAPER**  
**\$1.65**



**85B720**—With 3 in. steel cutter. For veneers, paint or glue. Wt., 3½ lbs. **\$1.65**

**85B721**—Extra steel cutter. Each **.14c**

**85B722**—Steel toothing cutter, 32 teeth per in. Wt., 5 oz. Each **.20c**

**BEECHWOOD BENCH PLANES**



Made of selected beechwood. With best quality crucible steel cutters. With lignum vitae starts.

**85B610**—Smooth Plane. Length, 8 in.; 2 in. double iron. Wt., 2 lbs. Each **.58c**


**85B611**—Jack Plane. Length, 16 in.; 2½ in. double iron. Wt., 4½ lbs. Each **.65c**

**85B612**—Fore Plane. Length, 22 in.; 2½ in. double iron. Wt., 6 lbs. Each **\$1.10**

**85B613**—Jointer Plane. Length, 26 in.; 2½ in. double iron. Wt., 6½ lbs. Each **\$1.15**

**SET OF FOUR BEECHWOOD PLANES**  
**85B615**—Consisting of Smooth, Jack, Fore and Jointer Plane. Wt., 18¼ lbs. Per set **\$3.40**


**WOOD RABBIT PLANE**  
**85B624**



Steel cutter. (Give size.) Wt.,  $\frac{3}{8}$  to 1½ lbs.

Size	Each
$\frac{1}{4}$	.48c
$\frac{1}{2}$	.48c
$\frac{3}{4}$	.48c
1	.48c
1½	.76c

**WOOD JACK RABBIT PLANE**  
**85B625**



Size of steel cutter,  $1\frac{1}{2}$  in. With handle and two side cutters. Wt., 2½ lbs. Each **\$1.40**

**WOOD HOLLOWS AND ROUNDS**  
**85B627**—Sold only in pairs. Steel cutters. (Give size.) Wt.,  $1\frac{1}{2}$  to 2½ lbs.

Size	Pair
$\frac{1}{4}$	\$.80
$\frac{1}{2}$	.80
$\frac{3}{4}$	.80
1	.80
1½	.95
2	.95
2½	1.10

**PLANE HANDLES**  
**85B620**—Handles for wooden Jack Planes. Beechwood. Wt., 4 oz. Each **.4c**

**NOSING PLANE**  
**85B628**—Wood Nosing Plane, for steps. With two steel cutters. Sizes,  $\frac{1}{4}$ ,  $1\frac{1}{2}$  and  $1\frac{3}{4}$  in. Wt.,  $1\frac{1}{4}$  to 1½ lbs. Each (give size) **.90c**

**85B629**— $1\frac{1}{2}$  and  $1\frac{3}{4}$  in. Wt., 1½ lbs. Each (give size) **.98c**

**WOOD BEAD PLANE**  
**85B630**—Side beads, single boxed. Steel cutter. Sizes,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $1\frac{1}{2}$  in. Wt.,  $\frac{3}{4}$  to 1 lb. Each (give size) **.40c**

**85B632**—Wood, with brass side stop. Steel cutter. Sizes,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $1\frac{1}{2}$  in. Wt.,  $\frac{3}{4}$  to 1½ lbs. (Give size.) Each **.88c**

**85B633**—Wood, with top screw stop. Steel cutter. Sizes,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $1\frac{1}{2}$  in. Wt.,  $\frac{3}{4}$  to 1½ lbs. (Give size.) Each **\$1.20**

**85B634**—Match planes, with metal side plate. Sizes,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $1\frac{1}{2}$  in. Wt.,  $\frac{3}{4}$  to 2½ lbs. Price, per pair **\$1.40**

**WOOD MATCH PLANE**  
**85B621**—Handles for Fore Planes and Jointers. Beechwood. Weight, 6 oz. Each **.6c**

**CARRIAGE RABBIT PLANE**



Carriage Makers' Iron Rabbit Plane, designed for heavy work, such as framing, etc. Has double steel cutters, fully adjustable.

**85B650**—Stanley No. 10½. Length, 9 in. Cutter, 2½ in. Weight,  $3\frac{3}{4}$  lbs. Each **\$1.95**

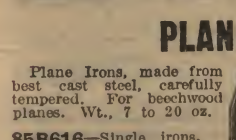
**85B651**—Stanley No. 10. Length, 9 in. Cutter, 2½ in. Weight,  $4\frac{1}{4}$  lbs. Each **\$2.25**

**DADO PLANE**



**85B664**—Stanley No. 239. Iron Dado Plane. With extra narrow  $\frac{1}{2}$  in. steel cutter. Ideal for electrical wire grooving. Double spur prevents splintering. Depth gauge for groove up to  $\frac{3}{8}$  in. deep. Length, 7½ in. Wt., 1 lb. Each **\$1.54**

**PLANE IRONS**



Plane Irons, made from best cast steel, carefully tempered. For beechwood planes. Wt., 7 to 20 oz.

**85B616**—Single irons.

Size, in.	1½	2	2½
Each	.21c	.23c	.24c

Size, in.	2½	3	3½
Each	.25c	.26c	.30c

Size, in.	3½	4	4½
Each	.34c	.37c	.42c

**85B617**—Double irons. (With caps.)

Size, in.	1½	2	2½
Each	.45c	.46c	.48c

Size, in.	2½	3	3½
Each	.50c	.52c	.55c

Size, in.	3½	4	4½
Each	.62c	.67c	.75c

**80c**



**85B633**—Wood, with top screw stop. Steel cutter. Sizes,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $1\frac{1}{2}$  in. Wt.,  $\frac{3}{4}$  to 1½ lbs. (Give size.) Each **.88c**

**85B634**—Match planes, with metal side plate. Sizes,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $1\frac{1}{2}$  in. Wt.,  $\frac{3}{4}$  to 2½ lbs. Price, per pair **\$1.40**

**WOOD MATCH PLANE**  
**85B621**—Handles for Fore Planes and Jointers. Beechwood. Weight, 6 oz. Each **.6c**

**STANLEY IRON SCRUB PLANE**

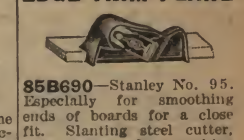


With single steel cutter, having the cutting edge rounded. It is particularly adapted for roughing down work before using a jack or other plane.

**85B652**—Stanley No. 40. Length, 9½ in. Width cutter, 1½ in. Wt., 2½ lbs. Each **.77c**


**85B653**—Stanley No. 40½. Length, 10½ in. Width cutter, 1½ in. Weight, 2½ lbs. Each **\$1.05**

**EDGE TRIM PLANE**



**85B690**—Stanley No. 95. Especially for smoothing ends of boards for a close fit. Slanting steel cutter, easy shaving. By attaching wood blocks of various bevels, slanting cuts may be made. Japanned iron body. Length, 6 in. Cutter,  $\frac{3}{8}$  in. Wt., 1½ lbs. Each **.85c**

**DOOR TRIM PLANE**  
**BETTER THAN CHISELS**  
**\$2.10**



**85B684** Stanley's No. 171. Used for making mortises for butts, strike plates, etc., up to  $\frac{3}{4}$  deep, by 3 in. wide. Serves also as router plane. Cushioned adjustable cutter. Regulating fence. Japanned iron stock. Nickel-plated trimmings. Rosewood handles. Three forged steel cutters. Length, 11 in. Wt., 3½ lbs. **\$2.75** value. Each **\$2.10**

**STANLEY DOVETAIL PLANE**  
**\$4.90**



**85B670** Stanley's No. 444. Used for making a tongue and groove for a dovetail joint. The only tool on the market which accomplishes this satisfactorily. Cuts any size grooves and tongues with sides flaring 20 degrees, where width of neck is not over  $\frac{1}{4}$  inch, and depth of groove not over  $\frac{3}{4}$  inch. Cuts them with parallel or tapering sides. Easy to operate. Complete directions included. Finely nickel-plated iron, with steel cutters. Length, 9 in. Packed in neat box. Weight, 6 lbs. **\$6.00** value. Each **\$4.90**

**ADJUSTABLE RABBIT PLANE**  
**FOR VERY ACCURATE WORK**  
**\$1.85**



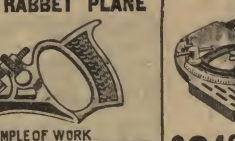
**85B686** Stanley's No. 93. Used on the finest cabinet work where great accuracy is required. Throat is adjustable for fine or coarse work, and steel cutter is adjustable endwise. Sides and bottom are square with each other. Made of iron. Nickel-plated.  $6\frac{1}{2}$  in. long. Tool steel cutter, 1 in. wide, screw adjustment. Weight, 1½ lbs. **\$2.60** value. Each **\$1.85**

**CURVE RABBIT PLANE**  
**\$2.80**



**85B660** Stanley's No. 196. Used for cutting rabbets on circular or irregular edges. Works on side or inside. Upper cutter acts as spur and cuts the side of the rabbit. Lower cutter follows the spur and cleanly cuts the bottom of the rabbit. Adjustable depth gauge and curved fence. Nickel-plated. Length, 9 in. Weight, 2½ lbs. **\$4.00** value. Each **\$2.80**

**CHUTE BOARD AND PLANE**  
**\$8.40**



**185B708** Stanley's No. 52. Used for accurately planing any kind of small pieces. The special plane has the cutter set on a skew, making a smooth, keen cut. Any ordinary "Draft" can be given to a pattern. Swivel can be clamped at any desired angle up to 90 degrees. Holds various shaped work, without splintering. Japanned iron. Length, 22 in. Rosewood handle. Tool steel cutter, 2½ in. wide. Screw and lever adjustment. Shipping wt., 17½ lbs. **\$10.00** value. Each **\$8.40**

**CORE BOX PLANE**  
**For Semi-circle to 5 in. Diam.**  
**\$3.10**



**85B705** Stanley's No. 57. For planing the inside of semi-circles. Includes one set of sections for working semi-circles up to 5 in. diameter. Nickel-plated iron. Length, 10 in. Beech handle and knob. Tool steel cutter,  $\frac{3}{8}$  in. wide. Wt., 5½ lbs. **\$4.25** value. **\$3.10** Each

**COMBINATION PLANE**  
**WITH 15 CUTTERS**  
**\$3.50**



**85B672** Stanley's No. 50. Used as plow, dado, beading and matching plane on light work. FURNISHED WITH 15 STEEL CUTTERS. Plow and Dado Cutters,  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$  and  $1\frac{1}{2}$  in. Beading Cutters,  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$  and  $1\frac{1}{2}$  in. Matching cutters. Nickel-plated iron. Length, 9½ in. Steel arms, 5 in. long. Weight, 4 lbs. **\$5.00** value. Each **\$3.50**

**LAKESIDE CIRCULAR PLANE**



**85B640**—Lakeside Improved Iron Circular Plane. The adjustment is easy and rapid. The flexible steel face can be quickly changed to any required arc, convex, concave, or straight. Is equal in quality and finish to the best. Steel cutter,  $1\frac{1}{2}$  in. Weight **\$1.80**

3½ lbs. Each

**STANLEY'S CIRCULAR PLANE, \$2.15**



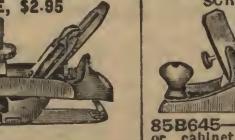
**85B642**—Stanley No. 113. Iron Circular Plane. The steel face is flexible, and by means of knob at end of stock, concave or convex surfaces can be worked as easily as straight ones. Width of steel cutter,  $1\frac{1}{2}$  in. Weight, 3½ lbs. Each **\$2.15**

**STANLEY'S CIRCULAR PLANE, \$2.95**



**85B643**—Stanley No. 20. The ends of the flexible face are fixed to the one-piece frame, and the large adjusting screw applied at the center, making a plane having great rigidity and accuracy of adjustment. Width of steel cutter,  $1\frac{1}{2}$  in. Iron nickel-plated finish. Weight, 3½ lbs. Each **\$2.95**

**STANLEY IRON ADJUSTABLE SCRAPER PLANE**  
**\$1.55**



**85B645**—For scraping veneers or cabinet work. As a tooth plane will do excellent work in scraping off old paint and glue. Length, 9 in. 2½-inch steel cutter. Toothing cutter not included. Weight, 4 lbs. Each **\$1.55**

**85B646**—Extra steel cutter for Veneer Scraper. Each **.17c**

**85B647**—Extra steel cutter for toothing (22, 28 or 32 teeth per inch). Each **.23c**

**LAKESIDE RABBIT PLANE AND FILLISTER, 98c**



**85B654**—This iron plane has two seats for cutters. The arm is reversible and can be used on right or left side of plane. It can be used to plane into corners or up against perpendicular work. It makes a superior right or left hand fillister, with adjustable spur and depth gauge. Length, 8½ in.;  $1\frac{1}{2}$ -inch steel cutter. Wt., 3½ lbs. Each **.98c**







# LAKESIDE HIGH GRADE STEEL AUGER BITS AT LOW PRICES

## AUGER BITS

### CAST-STEEL AUGER BITS

85B916—A good auger bit for general use, fully polished. Average weight, 1 to 8 oz.

Size, In.	Each	Size, In.	Each	Size, In.	Each
3/16	8c	1/2	9c	1 1/2	15c
1/4	7c	5/8	10c	1 3/4	15c
3/8	7c	7/8	12c	1 7/8	17c
1/2	7c	1 1/8	13c	2	18c
5/8	8c	1 1/4	14c	2 1/8	20c

### RUSSELL JENNINGS' AUGER BITS

85B917—Full polished steel. Standard feed screw. Widely known among the best mechanics. Average wt., 1 to 8 oz. (Give size.)

Size, In.	Each	Size, In.	Each	Size, In.	Each
3/16	27c	1/2	28c	1 1/2	42c
1/4	28c	5/8	29c	1 3/4	43c
3/8	29c	7/8	30c	1 7/8	44c
1/2	30c	1 1/8	31c	2	45c
5/8	31c	1 1/4	32c	2 1/8	46c

### SHIP AUGER BITS With Screw Point

85B920—L'Hommedieu pattern, with twist from four to six inches. First quality steel. Will bore with or across the grain and through the knottiest timber in any wood. Average weights, 2 to 9 oz.

Size, In.	Each	Size, In.	Each	Size, In.	Each
1/4	25c	1/2	26c	1 1/2	44c
3/8	25c	5/8	27c	1 3/4	45c
1/2	26c	7/8	28c	1 7/8	46c
5/8	26c	1 1/8	29c	2	47c
3/4	27c	1 1/4	30c	2 1/8	48c

### LONG SHIP AUGER CAR BITS With Screw Point

85B921—L'Hommedieu pattern, with twist; length, about 12 in. First quality steel. Will bore with or across the grain and through knotty timber in any wood. Average weights, 3 oz. to 1 1/2 lbs.

Size, In.	Each	Size, In.	Each	Size, In.	Each
3/4	35c	1 1/2	50c	1 3/4	69c
1	39c	1 3/4	54c	1 7/8	72c
1 1/4	40c	1 7/8	56c	2	75c
1 1/2	43c	2	60c	2 1/8	78c
1 3/4	45c	2 1/8	63c		
1 7/8	49c	2 1/4	65c		

### LONG CAR BITS Twelve-Inch Twist

85B922—Double Spur Car Bit, extra quality steel. Average weight, 2 to 16 oz. (Give size.)

Size, In.	Each	Size, In.	Each	Size, In.	Each
1/4	30c	1/2	42c	1 1/2	63c
3/8	31c	5/8	43c	1 3/4	67c
1/2	32c	7/8	45c	1 7/8	71c
3/4	33c	1	46c	2	74c
5/8	34c	1 1/8	47c	2 1/8	77c
3/4	35c	1 1/4	48c	2 1/4	79c

### BORING MACHINE AUGERS

85B923—Extra quality steel. With round shanks. Average weights, 9 to 21 oz. (Give size.)

Size, In.	Each	Size, In.	Each	Size, In.	Each
1/2	28c	1	37c	1 1/2	62c
3/4	29c	1 1/4	40c		
1	30c	1 3/4	42c		
1 1/4	31c	2	44c		
1 1/2	32c	2 1/4	46c		

### BORING MACHINE AUGER SOLID CENTER

85B924—Lakeside Brand. With round shank. A fast cutting bit. High grade steel. Substantial. Average weights, 11 to 20 oz. (Give size.)

Size, In.	Each	Size, In.	Each	Size, In.	Each
1	50c	1 1/4	64c	1 3/4	80c
1 1/4	51c	1 3/4	65c	2	82c
1 3/4	52c	2	66c		
2	53c	2 1/4	67c		
2 1/4	54c	2 1/2	68c		

### PRATT'S RATCHET AUGER HANDLE, \$1.75

85B928—Operates with one or both handles. May be used as ratchet drill. Ratchet works right, left or rigid. Chuck will hold all ordinary augers and bits. Steel metal parts finely nickel-plated and japanned. Length, 15 in. Average weight, 3 lbs.

Size, In.	Each	Size, In.	Each	Size, In.	Each
1	50c	1 1/4	64c	1 3/4	80c
1 1/4	51c	1 3/4	65c	2	82c
1 3/4	52c	2	66c		
2	53c	2 1/4	67c		
2 1/4	54c	2 1/2	68c		

## LAKESIDE AUGER BITS

### Jennings' Pattern

85B915—A popular style of bit. Strictly high grade in every respect. Very satisfactory for general work in soft or hard wood. Made from the finest quality of crucible steel. The twist has correct pitch, is well polished and clears easily. Made with deep sharp spurs, and standard smooth cutting feed screw. Double cutters. Carefully and accurately tempered. Finely polished and finished. Each bit is carefully tested to make certain that it will give you entire satisfaction.

Size, In.	Weight	Each
3/16	2 oz.	13c
1/4	3 oz.	14c
3/8	4 oz.	15c
1/2	5 oz.	16c
5/8	6 oz.	17c
3/4	7 oz.	18c
7/8	8 oz.	19c
1	9 oz.	20c
1 1/8	10 oz.	21c
1 1/4	11 oz.	22c
1 1/2	12 oz.	23c
1 3/4	13 oz.	24c
2	14 oz.	25c
2 1/4	15 oz.	26c
2 1/2	16 oz.	27c
2 3/4	17 oz.	28c
3	18 oz.	29c
3 1/4	19 oz.	30c
3 1/2	20 oz.	31c
3 3/4	21 oz.	32c
4	22 oz.	33c
4 1/4	23 oz.	34c
4 1/2	24 oz.	35c
4 3/4	25 oz.	36c

## LAKESIDE AUGER BITS

### Solid Center Stem

85B918—A style that has lately become very popular. Strictly high grade in every respect. For general work in soft or hard wood. Made from the finest quality of crucible steel. As the illustration indicates, its shape is such that the solid stem is carried through the twist to the point. The twist has correct pitch, is well polished, and clears easily. Made with deep sharp spurs and standard fast cutting feed screw. Double cutters. Carefully and accurately tempered. Finely polished and finished. Each bit is carefully tested to make certain that it will give you entire satisfaction.

Size, In.	Weight	Each
3/16	1 oz.	14c
1/4	1 oz.	15c
3/8	1 oz.	16c
1/2	1 oz.	17c
5/8	1 oz.	18c
3/4	1 oz.	19c
7/8	1 oz.	20c
1	1 oz.	21c
1 1/8	1 oz.	22c
1 1/4	1 oz.	23c
1 1/2	1 oz.	24c
1 3/4	1 oz.	25c
2	1 oz.	26c
2 1/4	1 oz.	27c
2 1/2	1 oz.	28c
2 3/4	1 oz.	29c
3	1 oz.	30c
3 1/4	1 oz.	31c
3 1/2	1 oz.	32c
3 3/4	1 oz.	33c
4	1 oz.	34c
4 1/4	1 oz.	35c
4 1/2	1 oz.	36c
4 3/4	1 oz.	37c
5	1 oz.	38c

## LAKESIDE AUGER BITS

### Single Twist

85B919—A very efficient style of bit for boring in any kind of wood. Cuts soft wood or hard wood smooth and clean and will always feed without danger of breaking the screw. Strictly high grade in every respect. Made from the finest quality of crucible steel. The twist has correct pitch and clears easily. Made with single spur and single extension lip. Standard fast cutting feed screw. Carefully and accurately tempered. Finely polished and finished. Each bit is carefully tested to make certain that it will give you entire satisfaction.

Size, In.	Weight	Each
3/16	1 oz.	15c
1/4	1 oz.	16c
3/8	1 oz.	17c
1/2	1 oz.	18c
5/8	1 oz.	19c
3/4	1 oz.	20c
7/8	1 oz.	21c
1	1 oz.	22c
1 1/8	1 oz.	23c
1 1/4	1 oz.	24c
1 1/2	1 oz.	25c
1 3/4	1 oz.	26c
2	1 oz.	27c
2 1/4	1 oz.	28c
2 1/2	1 oz.	29c
2 3/4	1 oz.	30c
3	1 oz.	31c
3 1/4	1 oz.	32c
3 1/2	1 oz.	33c
3 3/4	1 oz.	34c
4	1 oz.	35c
4 1/4	1 oz.	36c
4 1/2	1 oz.	37c
4 3/4	1 oz.	38c
5	1 oz.	39c

## GIMLET BITS

### GIMLET BITS

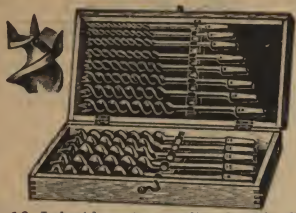
85B950—Extra quality cast steel. Nicely finished. Average weight, each, 1/2 to 1 oz.

Size, In.	Each	Size, In.	Each	Size, In.	Each
3/16	0	1/2	1	1 1/2	3
1/4	1	3/4	2	1 3/4	4
3/8	2	1	3	1 7/8	5
1/2	3	1 1/8	4	2	6
5/8	4	1 1/4	5	2 1/8	7
3/4	5	1 3/4	6	2 1/4	8
7/8	6	2	7	2 3/4	9
1	7	2 1/8	8	3	10
1 1/8	8	2 1/4	9	3 1/4	11
1 1/4	9	2 3/4	10	3 1/2	12
1 1/2	10	3	11	3 3/4	13
1 3/4	11	3 1/4	12	4	14
2	12	3 1/2	13	4 1/4	15
2 1/8	13	3 3/4	14	4 1/2	16
2 1/4	14	4	15	4 3/4	17
2 1/2	15	4 1/4	16	5	18
2 3/4	16	4 1/2	17	5 1/4	19
3	17	4 3/4	18	5 1/2	20
3 1/4	18	5	19	5 3/4	21
3 1/2	19	5 1/4	20	6	22
3 3/4	20	5 1/2	21	6 1/4	23
4	21	5 3/4	22	6 1/2	24
4 1/4	22	6	23	6 3/4	25
4 1/2	23	6 1/4	24	7	26
4 3/4	24	6 1/2	25	7 1/4	27
5	25	6 3/4	26	7 1/2	28
5 1/4	26	7	27	7 3/4	29
5 1/2	27	7 1/4	28	8	30
5 3/4	28	7 1/2	29	8 1/4	31
6	29	7 3/4	30	8 1/2	32
6 1/4	30	8	31	8 3/4	33
6 1/2	31	8 1/4	32	9	34
6 3/4	32	8 1/2	33		
7	33	8 3/4	34		
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29 1/2	123				
29 3/4	124				
30	125				
30 1/4	126				
30 1/2	127				
30 3/4	128				
31	129				
31 1/4	130				
31 1/2	131				
31 3/4	132				
32	133				



# ATTRACTIVE AUGER BIT SETS AND CARPENTERS' TOOLS

## LAKESIDE AUGER BIT SET FULL SET OF 13



**85B980**—13 Lakeside extra quality Double Spur Auger Bits, Jennings' pattern. With deep, sharp lips and spurs, and accurately threaded screw. Made of finest steel, well tempered and finely polished. One each, by sixteenths, from 1/4 to 1 inch size. Put up in a neatly varnished hardwood box with hinged cover. Each bit is held in place by a brass spring clip. An excellent set for all around use. Average weight, 4 lbs.  
Per set ..... **\$2.60**

## STANDARD AUGER BIT SETS



Double spur auger bits. Made of cast steel. Tempered and polished. Have double lips and are good bits for general use.

### FULL SET OF 13 BITS

**85B982**—Consists of 13 bits as described. One each, by sixteenths, from 1/4 to 1 inch. Put up in a neat hardwood box with hinged cover. Wt., 4 lbs.  
Per set ..... **\$1.75**

### SET OF 6 BITS

**85B983**—One each, 1/4, 3/8, 1/2, 3/4, 1 inch. Put up in hinged hardwood box. Weight, 2 lbs.  
Per set ..... **85c**

## SINGLE TWIST AUGER BIT SETS



Strong, rapid cutting bits. Have single cutter and spur and coarse feed screw. Made of high grade steel. Correctly tempered and finely polished. A fine bit for rapid work.

### FULL SET OF 13 BITS

**85B990**—Consists of 13 bits. One each, by sixteenths, from 1/4 to 1 inch. In varnished box. Wt., 4 1/2 lbs. Per set ..... **\$3.05**

### SET OF 6 BITS

**85B991**—One each, 1/4, 3/8, 1/2, 3/4, 1 inch. In varnished box. Wt., 1 1/2 lbs.  
Per set ..... **\$1.30**

## LAKESIDE SOLID CENTER AUGER BIT SETS

### SET OF 6 BITS

**85B996**—Consists of 6 Lakeside solid center stem auger bits. Finest steel, well tempered and finely polished. One each 1/4, 3/8, 1/2, 3/4, 1 inch. Put up in a handy upright box as illustrated. A convenient set for mechanic or householder. Average weight, 2 3/4 lbs. Per set ..... **\$1.30**



### SET OF 8 BITS

**85B995**—Consists of 8 Lakeside solid center stem auger bits. Finest steel, well tempered and finely polished. One each 1/4, 3/8, 1/2, 3/4, 1 inch. Put up in a handy upright box, as illustrated. A very serviceable assortment. Average wt., 3 1/2 lbs. Per set ..... **\$1.65**

### FULL SET OF 13 BITS

**85B994**—Consists of a full set of 13 of our popular Lakeside Solid Center Stem Auger Bits. Have double cutter and standard double thread screw. Bore fast and true. Made of finest steel. Correctly shaped, well tempered and finely polished. Perfect in material and workmanship. One each, 1/4, 3/8, 1/2, 3/4, 1 inch. Put up in a handy, upright wood box with hinged cover. Nicely varnished. A most desirable assortment and popular everywhere. Average weight, 4 1/2 lbs.  
Per set ..... **\$2.95**

## AUGER BIT SETS IN CONVENIENT CANVAS ROLLS

A safe and convenient method of keeping bits from injury. Rolls are made of heavy brown canvas, with extra flap to protect points. The case, rolled up with bits complete, measures about 3x11 in. Average weight, per set, 3 1/2 lbs.



### SET OF 13 STANDARD BITS

**85B1005**—Consists of 13 Cast-Steel Double Spur Auger Bits. Full polished. One each, 1/4 to 1 in. Put up in plain, flannel lined, canvas roll, as shown. Complete ..... **\$1.70**

### SET OF 13 LAKESIDE BITS

**85B1006**—Consisting of 13 Lakeside Double Spur Auger bits, Jennings' pattern. Finely polished. One each, 1/4 in. to 1 in. Put up in a heavy, brown, canvas roll, as illustrated. Edges bound with leatherette. Fitted with brass eyelets for hanging on wall. Leather strap and buckle. Complete ..... **\$2.65**

**85B1008**—Consists of 13 Lakeside Solid Center Stem Auger Bits. Finely Polished. One each, 1/4 to 1 in. Put up in a neat, canvas roll same as Lakeside bits above. Complete ..... **\$2.75**

### EMPTY CANVAS ROLLS WITHOUT BITS

**85B1010**—With pockets for 13 auger bits. A convenient and practical way of keeping auger bits. Made of heavy brown canvas. Leatherette bound edges. Fitted with brass eyelets for hanging up with strap and buckle. Average weight, 6 oz. Each ..... **28c**

## RUSSELL JENNINGS' AUGER BITS



Standard Double Thread Screw. These bits are considered by many mechanics the finest auger bits on the market. They have a well established reputation for quality. Made of finest steel, correctly shaped, properly tempered and highly polished. We furnish them with standard double thread for cabinet and fine work.

### FULL SET OF 13 BITS

**85B985**—Set of 13 bits. One each, 1/4 to 1 in. in a patent, three-section hardwood box, as shown. Weight, 1 1/2 lbs.  
Per set ..... **\$5.00**

### SET OF 6 BITS

**85B986**—Set of 6 bits. One each, 1/4, 3/8, 1/2, 3/4, 1 inch. Put up in a neat, wooden box with hinged cover. Weight, 1 1/2 lbs.  
Per set ..... **\$2.00**

## C. E. JENNINGS & CO. AUGER BITS



Made of extra quality steel with double spurs. Correctly shaped, well tempered and finely polished. With standard double thread screw. A fine, high grade bit, greatly favored by many of the best mechanics.

### SET OF 13 BITS

**85B1000**—Consists of 13 bits as described. One each, by sixteenths, from 1/4 to 1 in. Put up in a neatly varnished box with hinged cover. Average wt., 4 1/2 lbs.  
Per set ..... **\$2.98**

### SET OF 8 BITS

**85B1001**—Consists of 8 bits as described. One each, 3/8, 1/2, 3/4, 1 inch. Put up in a neatly varnished box with hinged cover. Average weight, 1 1/2 lbs.  
Per set ..... **\$1.70**

## LAKESIDE SPECIAL BRACE and BIT SET



**85B1014**—Set consists of the following tools: 1 nickel plated steel Lakeside ratchet bit brace, 10 in. sweep. With full set of 13 Lakeside solid stem auger bits (our 85B918), one each, 1/4 to 1 in. Set of 8 German gimlet bits, 1/16 to 3/8 in., one square reamer, one flat countersink, one snail countersink, one auger bit file. All high grade, extra quality tools. Complete, in a neat hardwood box with hinged cover, as illustrated. Box has separate tray for brace. Average weight, 12 lbs. Regular \$6.00 to \$6.50 retail value. Per set ..... **\$4.95**

## BRACE AND BIT SET



**85B1018**—Set consists of the following tools, as illustrated: 1 nickel plated ratchet bit brace, 10 in. sweep; 7 Lakeside, extra quality steel auger bits, one each 1/4, 3/8, 1/2, 3/4, 1 in. (our No. 85B915); and 1 screwdriver bit. Packed complete in a nicely finished hardwood box. Box has separate tray for brace. Average wt. 7 lbs. Regular \$3.50 retail value.  
Per set ..... **\$2.45**

## BRACE AND BIT SET



**85B1020**—Set consists of the following tools as shown: 1 Ratchet Brace, polished steel, 10-in. sweep; 7 Standard steel auger bits, one each, 1/4, 3/8, 1/2, 3/4, 1 inch; and 1 screwdriver bit. A good outfit for general use. Packed complete in a nicely finished hardwood box, as illustrated. Box has separate tray for brace. Average weight, 5 1/2 lbs. Per set ..... **\$1.75**

## STANLEY FLOOR PLANES

### ADJUSTABLE FLOOR PLANE

**85B745**—Stanley's No. 11 1/2. Used in kneeling position for planing floors, bowling alleys, decks of vessels, etc. Made of iron, japanned. Length, 7 1/2 in. Throat is adjustable, and cutter adjustable endwise. Maple cross handle. Tool steel cutter. Width, 2 3/4 in. Screw adjustment. Weight, 3 3/4 lbs. \$3.15 retail value. Each ..... **\$2.20**



### LONG HANDLED FLOOR PLANE

**185B746**—Stanley's No. 74. Used in standing position for planing large floors, decks of vessels, etc. Made of iron, japanned. Length, 10 1/2 in. Tool steel cutter; width, 2 3/4 in. Average shipping weight, 23 1/2 lbs. \$4.50 retail value. Each ..... **\$3.50**



## PLANE GAUGES

### PLANE GAUGE FOR IRON PLANES



**85B710**—Readily clamped to any iron plane, to accurately plane bevels of any angle. Does away with the use of a try square or bevel. Cast iron, Japan and nickel finish. Average weight, 1 1/2 lbs. Each ..... **70c**  
(Plane not included.)

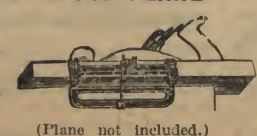
### PLANE GAUGE FOR IRON PLANES



**85B714**—Stanley's No. 386. For accurately planing bevels between 30 and 90 degrees or for squaring up edges of boards. Clamps on either side of plane. Nickel plated. Average weight, 2 1/2 lbs. Each ..... **\$1.20**  
(Plane not included.)

## PLANE GAUGE FOR WOOD PLANE

**85B712**—Will fit any wooden plane. Attached with screws. By its use either beveling or jointing may be accurately and quickly accomplished. Cast iron. Average wt., 1 1/2 lbs. Each ..... **58c**  
(Plane not included.)



## ANGULAR BORING MACHINES

### STANDARD BORING MACHINE



**\$3.25**

**185B1378**—Strong and well made, with graduated ways, swinging rack, malleable crank. Can be used to bore at any desired angle. Chuck has 1/2 in. round hole. Base and uprights are seasoned hardwood. Cast iron mechanism. Average shipping weight, 26 lbs. \$5.00 retail value. Without augers. Each ..... **\$3.25**

### MILLER'S FALLS BORING MACHINE



**\$6.25**

**185B1380**—A high grade, finely finished machine. Cast iron mechanism. Uprights are 1/2 in. round steel rods, adjustable by a set screw to bore at any angle. Chuck has 1/2 in. round hole. Average shipping weight, 41 lbs. Without augers. Each ..... **\$6.25**

## RAPID FLOOR SCRAPER

WILL DO THE WORK OF THREE MEN WITH HAND SCRAPER

**\$8.25**



**185B740**—This machine will do the finest work on all kinds of flooring, either hard or soft wood; will do it easily and much quicker than by any other method. Has a special tool steel knife, rubber tired wheels and handle adjustable to different heights. The machine is pulled toward the operator, working upon the floor similar to a plane, leaving the surface smooth and level. The weight of the machine prevents it from jumping and leaving a wavy effect, and the rubber-tired wheels prevent scratching the floor. Does the same good work as many machines sold at a much higher price. Width of machine, 6 in., and the same knife extends across the entire width so it is possible to get close to the wall or base board and into corners. Average shipping weight, 130 lbs. Each (with two knives) ..... **\$8.75**

**85B741**—Extra knives. Wt., 6 oz. Each ..... **40**

## HIGH GRADE MALLET AT LOW PRICES

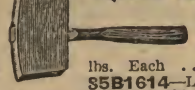
### RAWHIDE BOUND MALLET



Plastic, thick hide face prevents jarring, greatly relieving the arm of the user. Made of hardwood.

Number	Diam. Face	Wt. Lbs.	Each
<b>85B1624</b>	2 in.	3/4	40c
<b>85B1625</b>	2 1/2 in.	1	52c
<b>85B1626</b>	3 in.	1 1/4	65c

### SQUARE MALLET



**85B1613**—Hickory Head, 2 1/2 x 3 1/4 in. Wt., 1 1/4 lbs. Each ..... **20c**

**85B1614**—Lignumvitae head, 2 1/2 x 3 1/4 in. Thoroughly seasoned, with occasional slight cracks. Wt., 2 1/4 lbs. Each ..... **40c**

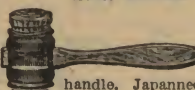
### ROUND WOOD MALLET



**85B1618**—Solid Hickory. Diam. head, 3 1/2 in. Wt., 2 1/4 lbs. Each ..... **22c**

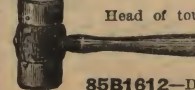
**85B1619**—Lignumvitae Head. Thoroughly seasoned, with occasional slight cracks. Diam., 3 1/2 in. Wt., 3 1/4 lbs. Each ..... **42c**

### IRON BOUND MALLET



**85B1622**—Cast iron body; hardwood ends and handle. Japanned. Length of head, 6 1/4 in. Diameter, 2 1/2 in. Wt., 3 1/2 lbs. Each ..... **60c**

### FIBRE HEAD MALLET



Head of tough vulcanized fibre. Handles screw in. The bands holding the faces are malleable iron. Length of head, 5 1/2 in.

**85B1610**—Diam. of face, 2 1/2 in. Weight, 1 1/4 lbs. Each ..... **50c**

**85B1612**—Diam., 3 in. Wt., 2 1/4 lbs. Each ..... **60c**

## CARPENTERS' APRON

**85B648**—Made of heavy brown duck. Convenient and durable. Adjustable waist band. With four pockets, reinforced with leather at corners, as illustrated. Will hold nails, rule, etc. Neatly and carefully made throughout. Size, about 26x20 in. Weight, about 5 oz. Each ..... **20c**



It is our business to keep within reasonable limits the prices of the things you need. If we cannot make our prices more attractive than others, we cannot expect your orders.

Conditions have never before made this catalogue so interesting; the world's markets have never been so carefully combed by our buyers as they have been this season; in the face of rising prices, our quotations have been kept consistently low and attractive.



# HIGH GRADE METAL DRILLS AND REAMERS

## BIT STOCK TWIST DRILLS

### FOR METAL BORING

**85B1050**—Bit Stock Drills, with square shank and will fit any ordinary bit brace. Made by one of the largest and best manufacturers in the country. Each drill is carefully tempered steel, tested and finished. Will bore any kind of untempered steel, iron or other metal. Suitable for either metal or wood. We offer them at low prices, which are only possible on account of the immense quantities which we sell. (Give size.) Lengths, 3 1/2 to 7 1/2 in. Weights, each, 1/2 to 7 oz.

Size, in.	1/16	3/32	1/8	5/32	3/16	7/32	1/4	9/32	5/16	11/32
Each	\$0.04	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12	\$0.14	\$0.16
Dozen	.43	.48	.62	.75	.92	1.05	1.20	1.40	1.60	1.85
Size, in.	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4
Each	\$0.18	\$0.20	\$0.22	\$0.24	\$0.26	\$0.28	\$0.37	\$0.39	\$0.46	\$0.49
Dozen	2.05	2.30	2.50	2.75	3.00	3.20	4.20	4.50	5.30	5.70

## STONE CUTTERS' STAR HAND DRILLS

25c

**85B1070**—For stone, brick or concrete. Made of high grade steel, carefully tempered, sharpened ready for use. Used with a hammer. Length, 12 in. Weights, 6 oz. to 15 oz. (Give size.)

Size	1/2 in.	5/8 in.	3/4 in.
Each	.25c	.28c	.30c

### COMBINED DRILL AND COUNTERSINK

**85B1066**—Finest tempered tool steel. Specially designed for drilling and countersinking trees and wagon irons at one operation. Diameter of body, 1/2 in. Length, 3 1/2 to 4 in. Average weight, 2 to 3 oz.

Size	1/2 in.	5/8 in.	3/4 in.	1 in.
Diam., Drill, in.	1/2	5/8	3/4	1
Each	.32c	.33c	.35c	.36c

## BIT STOCK DRILL SET

70c

**85B1052**—Set of nine, first quality steel twist drills for metal or wood, with square shank for bit brace. One each, 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/8, 3/4, 1 in. Complete in round covered box. Lengths, 3 1/2 to 6 1/2 in. Wt., per set, 1 1/2 lb. Per set, .70c



## MACHINISTS' STEEL TWIST DRILL SETS

**85B1062**—Set of 29 Drills with Metal Stand. Finished in antique copper. Each hole is numbered corresponding to the drill fitting it. Very convenient for the mechanic's bench. Set comprises Stand and 29 drills, from 1/16 in. to 1 1/2 in. inclusive, by 64ths. Lengths, 2 1/2 to 6 1/2 in. Average wt., 3 1/2 lbs. Per set, .53.75

**Set No. 1 to No. 60**  
**85B1064**—Set of 60 Straight Shank Drills. Wire gauge sizes from No. 1 to No. 60 inclusive. Complete with numbered metal stand. Wt., 3 1/4 lbs. Per set, .52.95

## STANDARD STEEL TAPER PIN REAMERS

**85B1084**—Taper 1/4 in. to the foot. The point of each reamer will enter the hole made by the size smaller. Lengths range from 2 1/2 in. to 6 1/2 in. Average weight, each, 1/2 to 4 oz.

Size	0	1	2	3	4	5	6	7	8
Diam. small end, decimal inches	.125	.146	.162	.183	.208	.240	.279	.331	.398
Each	.55c	.56c	.66c	.82c	.93c	\$1.10	\$1.20	\$1.38	\$1.65

**SET OF 5 REAMERS**  
**85B1085**—Set of 5 Reamers. Sizes, 0 to 4. Packed in wooden box. Wt., per set, 6 oz. Per set, .53.45

## TAPER SQUARE SHANK TWIST DRILLS

### For Ratchets

**85B1068**—Made especially for Ratchet drills. Square shanks, 1/2 in. by 1/2 in. Length, 1 1/2 in. Tempered steel. Weights, 3 to 15 oz. (Give size.)

Diam., in.	1/8	5/16	3/8	1/2	5/8	3/4	1	1 1/8	1 1/4	1 1/2
Length, in.	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Each	.58c	.63c	.70c	.70c	.75c	.80c	.82c	.86c	.92c	.92c
Diam., in.	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/8	2 1/4	2 1/2	2 3/4	3
Each	.92c	.92c	.92c	.92c	.92c	.92c	.92c	.92c	.92c	.92c

Diam., in. .105 .120 .135 .150

## Square Brace

**85B1074**—Extra Quality. High grade steel, fully polished. Length, 5 1/2 in. Weight, 3 oz. Each .20c

## STANDARD FLUTED TAPER REAMERS

**85B1076**—Milled tool steel. Tapers from 1/8 to 1/2 in. Length, 5 1/2 in. Average wt., 2 oz. Each .40c

**85B1077**—Milled tool steel. Length, 5 in. Tapers, 1/8 to 1/2 in. Average wt., 6 oz. Each .85c

## FLUTED TAPER REAMERS

**85B1082**—Extra quality tool steel with bit brace shanks. Length, 4 to 6 1/2 in. Average wt., 1 to 5 oz. Give size.

Size, in.	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/8	1 1/4	1 1/2
Each	.12c	.15c	.18c	.22c	.26c	.30c	.36c	.42c	.49c	.49c

## COUNTERSINKS

### TO FIT BRACE

**85B1092**—Extra Quality flat steel. Length, 3 1/2 in. Wt., 2 oz. Each .10c

**85B1093**—Countersink. Rose head, cast steel. Length, 3 1/2 in. Wt., 1 oz. Each .08c

**85B1095**—Steel Small Counter sinks. For either wood or metal. Length, 3 1/2 in. Weight, 1 oz. Each .08c

**85B1096**—Extra Quality Steel Small Countersinks. Length, 3 1/2 in. Each .15c

**85B1097**—Patent Double Cut Countersink. Easily sharpened. Nickel-plated steel. Length, 4 1/4 in. Wt., 2 oz. Each .23c

**85B1098**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .22c

**85B1099**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1100**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1101**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1102**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1103**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1104**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1105**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1106**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1107**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1108**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1109**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1110**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1111**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1112**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1113**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1114**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1115**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1116**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1117**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1118**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1119**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1120**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1121**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1122**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1123**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1124**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1125**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1126**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1127**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

**85B1128**—Double Lip Countersink, drop forged steel. Does rapid and smooth work. Can be sharpened with a file. Weight, 1 to 2 oz. (Give size.) Each .23c

## NAIL SETS AND CENTER PUNCHES

### Extra Quality Nail Sets

**85B1112**—Small size, 3/32 point. Each .08c

**85B1114**—Medium size, 1/16 point. Each .08c

**85B1115**—Large size, 1/8 point. Each .08c

**85B1116**—Large size, 1/8 point. Each .08c

**85B1117**—Large size, 1/8 point. Each .08c

**85B1118**—Large size, 1/8 point. Each .08c

**85B1119**—Large size, 1/8 point. Each .08c

**85B1120**—Large size, 1/8 point. Each .08c

**85B1121**—Large size, 1/8 point. Each .08c

**85B1122**—Large size, 1/8 point. Each .08c

**85B1123**—Large size, 1/8 point. Each .08c

**85B1124**—Large size, 1/8 point. Each .08c

**85B1125**—Large size, 1/8 point. Each .08c

**85B1126**—Large size, 1/8 point. Each .08c

**85B1127**—Large size, 1/8 point. Each .08c

**85B1128**—Large size, 1/8 point. Each .08c

**85B1129**—Large size, 1/8 point. Each .08c

**85B1130**—Large size, 1/8 point. Each .08c

**85B1131**—Large size, 1/8 point. Each .08c

**85B1132**—Large size, 1/8 point. Each .08c

**85B1133**—Large size, 1/8 point. Each .08c

**85B1134**—Large size, 1/8 point. Each .08c

**85B1135**—Large size, 1/8 point. Each .08c

**85B1136**—Large size, 1/8 point. Each .08c

**85B1137**—Large size, 1/8 point. Each .08c

**85B1138**—Large size, 1/8 point. Each .08c

**85B1139**—Large size, 1/8 point. Each .08c

**85B1140**—Large size, 1/8 point. Each .08c

**85B1141**—Large size, 1/8 point. Each .08c

**85B1142**—Large size, 1/8 point. Each .08c

**85B1143**—Large size, 1/8 point. Each .08c

**85B1144**—Large size, 1/8 point. Each .08c

**85B1145**—Large size, 1/8 point. Each .08c

**85B1146**—Large size, 1/8 point. Each .08c

**85B1147**—Large size, 1/8 point. Each .08c

**85B1148**—Large size, 1/8 point. Each .08c

## POCKET NAIL SET

**85B1120**—Set of four best quality steel nail sets, assorted sizes. Put up in a neat little pocket case with cover. Length, 4 in. Average wt., 8 oz. Per set, .28c

**85B1132**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1133**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1134**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1135**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1136**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1137**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1138**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1139**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1140**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1141**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1142**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1143**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1144**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1145**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1146**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1147**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1148**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1149**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1150**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1151**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1152**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1153**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1154**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1155**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1156**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1157**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1158**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1159**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Carefully shaped and tempered. In neat wood box. Length, 4 in. Weight, 2 1/2 lbs. Per set, \$1.40

**85B1160**—Set of 15 punches, assorted shapes. Finest tool steel. Diam., 1/2 in. Care



## GOODSELL RATCHET BRACE

**85B1234** Steel, Nickel plated, with cocobola handle and head. Steel Jaws, A high grade tool.

Size in.	Average Weight.	Each
8	2 1/2 lbs.	\$1.10
10	2 3/4 lbs.	1.23
12	2 3/4 lbs.	1.35
14	2 3/4 lbs.	1.45

## SAMSON RATCHET BRACE

**85B1236** With ball bearing head and chuck. Nickel plated steel sweep. Cocobola head and center.

Size in.	Weight pounds	Each
8	2 3/4	\$1.80
10	3 1/4	1.95
12	3 3/4	2.05
14	3 3/4	2.30

## LAKEVIEW RATCHET BRACE

**\$1.35 BALL BEARING-EXTRA QUALITY \$1.70**

**85B1230**—Our Lakeside Ball Bearing Ratchet Brace combines the very best features of the most expensive braces, but we sell it at a popular price. Finely nickel plated. Cocobola head and handle. Head is ball bearing and metal clad. Ring ratchet. Hardened jaws and pawls. Steel chuck. Jaws will hold firmly any square shank bit, and up to 1/2-inch round shank drills. Strong steel sweeps. Exceptional value. Highly finished. (Give size.)

Size, inches	8	10	12	14
Average weight, lbs.	2 3/4	3 1/4	3 3/4	3 3/4
Each	\$1.35	\$1.45	\$1.60	\$1.70

## FRAY'S CORNER BRACE

**85B1370** — With covered gears. Cocobola head and handle. Used by electricians and plumbers for rapid and accurate work. Close to corners. A strictly high grade tool. Steel. Nickel plated finish. \$3.50 value. Size, 8-in. sweep. Average weight, 3 1/2 lbs. Each...**\$2.45**  
Size, 10-in. sweep. Average weight, 4 lbs. Each...**\$2.75**

## UNIVERSAL CORNER BRACE

**85B1374** Goodell-Pratt Brace. Steel. For difficult places. The steady wood handle can be moved in any position. Operating handle is adjustable to two different lengths. Enclosed gears. Chuck holds square shank bits. Length from end to end, 10 in. Nickel-plated finish. Wt., 3 1/2 lbs. Each...**\$2.15**

## FRAY'S SPOFFORD BRACES

**85B1248** — The Blacksmith's favorite. Steel, finely nickel-plated. Heavy and strong, with cocobola head and handle. For square shank bits only.

Size	Weight	Each
8 in.	1 1/2 lbs.	\$0.98
10 in.	1 1/2 lbs.	1.05
12 in.	2 1/2 lbs.	1.15
14 in.	2 1/2 lbs.	1.20

## COMBINATION DRILL BRACE

**85B1258** Millers-Falls. Steel body. Drill crank can be detached, ratchet brace. Nickel-plated. 10-inch sweep. Ball bearing head. For round or square shank bits. Wt., 4 1/2 lbs. Each...**\$2.35**

## PLAIN BRACE

**85B1250** — 8-inch sweep. Average wt., 1 1/2 lbs. Each...**.22c**  
**85B1251** — 10-inch sweep. Average wt., 1 1/2 lbs. Each...**.25c**

## STANLEY RATCHET BRACE

**85B1238**—Stanley's No. 901. Highest quality. With Universal Jaws for any size bit and will take round shanks up to 1/2 in. Ball bearing metal clad cocobola head, and handle. Concealed ratchet, heavy steel sweep. Highly nickel plated finish. (Give size.)

Size, in.	Wt. lbs.	Each
8	2 1/4	\$1.70
10	2 3/4	1.80
12	3 1/4	1.90
14	3 3/4	2.05

## SPECIAL RATCHET BRACES

Steel sweep, mahogany finish head and center, steel jaws and socket.  
**85B1240** Nickel plated. Size, in. 8 10 12 14. Wt., lbs. 2 1/2 3 3/4 3 3/4 3 3/4. Each...**75c**  
**85B1244**—Plain finish. Size, in. 8 10 12 14. Wt., lbs. 2 1/2 3 3/4 3 3/4 3 3/4. Each...**60c**  
**85B1262** — For boring at right angles in cramped quarters. Length, 23 in. Sweep. Holds regular auger bits. Main frame of malleable iron. Working parts of hardened steel. Ball bearings. Hardwood steady handle. Ratchet crank. One man can use with great ease. Finely finished. Average wt., 5 lbs. Each...**\$2.30**

## RATCHET SILL BORER

**85B1262** — For boring at right angles in cramped quarters. Length, 23 in. Sweep. Holds regular auger bits. Main frame of malleable iron. Working parts of hardened steel. Ball bearings. Hardwood steady handle. Ratchet crank. One man can use with great ease. Finely finished. Average wt., 5 lbs. Each...**\$2.30**

## GOODSELL-PRATT BREAST DRILL

**85B1265** — Goodsell - Pratt Breast Drill. One of the most complete tools of its kind made. Double geared. With 2 speeds. readily changed from fast to slow. The spindle runs in a hardened steel cone bearing. Breast plate is adjustable. Has an improved three jawed chuck, capacity, 0 to 1/2 in., and will hold round shank drills accurately and true. Finely nickel-plated and enameled. (Regular \$4.00 value.) Average weight, 5 1/2 lbs. Each...**\$2.85**

**TWO SPEEDS BALL BEARING \$2.85 THREE-JAWED CHUCK**

## HAND DRILL

**85B1300** Goodsell-Pratt Hand Drill. Cut gears, malleable frame and hard-wood handle. Three-jawed chuck; capacity, 0 to 1/2 in. Gears and chuck are nickel-plated. No drills furnished. Wt., 1 1/2 lbs. Each...**\$1.25**

## GOODSELL-PRATT HAND DRILL

**85B1290** — A High Grade Tool with nickel-plated steel frame, large polished cocobola hollow handle, with screw cap. Wide cut gears. Two small pinions equalize the bearing. Three-jawed chuck, capacity up to 1/2 in. We include eight fluted drill points, from 1/8 to 1 1/4 in., which will be found in hollow handle of drill. Quality, workmanship and finish are excellent. Usual \$1.75 value. A bargain at our price. Length, 10 in. Average wt., 1 1/2 lbs. Each...**\$1.30**

## EXTRA QUALITY DRILL

**85B1298** Goodsell - Pratt Hand Drill. Steel. Wood handles. One of the finest produced in the U.S. Gears, two speeds and a three-jawed chuck. Capacity, 0 to 1/2 in. No drills furnished. Average wt., 3 lbs. Each...**\$2.10**

## STANLEY BREAST DRILL

**85B1267** — Stanley's No. 721. With double speed, 3 to 1, and even speed, 1 to 1. Level on frame. Ball thrust bearing. Chuck holds round shank drills, up to 1/2 in. Spindle may be locked. Steel frame. Nickel-plated. Cocobola handles. Average wt., 4 1/2 lbs. Each...**\$3.45**

## BREAST DRILL

**85B1268** — Fray's Breast Drill. Strong, light, malleable frame, with improved chuck, alligator jaws to take both square and round shank bits. Has two speeds, cut gears, ball bearing thrust and walnut handles. Length, 17 in. Average weight, 5 lbs. Each...**\$1.70**

## BREAST DRILL

**85B1270** — Goodsell-Pratt Breast Drill. Japanned, malleable frame, level attachment, cocobola handles and nickel-plated chuck. Alligator jaws to hold square or round shank drills. Average wt., 6 1/2 lbs. Each...**\$2.25**

## BREAST DRILL

**85B1274** — Millers-Falls Two-Speed Breast Drill. Japanned, malleable frame, level attachment, cocobola handles and nickel-plated chuck. Alligator jaws to hold square or round shank drills. Average wt., 6 1/2 lbs. Each...**\$2.25**

## HAND DRILL

**85B1292** Goodsell-Pratt Hand Drill. Strong, light, malleable frame. Nickel-plated cut gears. Brass handles. White nickel-plated. Eight drills. 1/4 to 1 1/4 in. Length, 8 in. Wt., 1 lb. Each...**.80c**  
**85B1293** Extra Drills. Wt., set, 1 oz. Per set of 8...**.35c**

## HAND DRILL

**85B1305** Goodsell - Pratt's make. Wrought steel frame, crank and three-jawed chuck. Malleable iron gears. Hardwood handle and cut gears. Nickel-plated. Three-jawed chuck; capacity, 0 to 1/2 in. Holds drills 1/4 to 1 1/4 in. Wt., 1 1/2 lbs. No. 3 lbs. drills furnished. Each...**\$1.33**

## LARGE HAND DRILL

**85B1304** Goodsell - Pratt Hand Drill. Double geared, steel frame, nickel-plated. Hardwood handles and cut gears. Three-jawed chuck; capacity, 0 to 1/2 in. Length, 15 in. Wt., 3 1/2 lbs. No. 3 lbs. drills furnished. Each...**\$2.10**

## LIGHT HAND DRILL

**85B1308** Light Iron Hand Drill. With adjustable chuck, and hollow handle. Full length, 10 1/2 in. Prices include 6 drill points, 1/8 to 1 1/4 in. Average wt., 16 oz. Each...**.43c**  
Extra Drills. **85B1309**—Extra drill points. Weight, 1 oz. Per set...**.90**

## THE FAMOUS MR. PUNCH AUTOMATIC DRILL, \$1.20

**85B1311** — Goodsell-Pratt Automatic Hand Drill No. 185. With magazine handle for drill points and gauge showing the exact size of drill in each compartment. A strictly high class tool with all the good points of other hand drills, and also many new and valuable features. Made entirely of brass, finely polished and nickel-plated. Pushing handle down rapidly revolves the drill, and a spring automatically pushes the handle back. Length, 10 in. Complete with 8 drill points, assorted from 1/8 to 1 1/4 in. Average weight, 9 oz. Each...**\$1.20**  
**85B1313**—Extra points. Wt., 1/4 oz. Each...**.04**

## GOODSELL-PRATT AUTOMATIC DRILL

**85B1316**—Polished hardwood handle. Nickel-plated steel mechanism. With drills 1/8 to 1 1/4 in. Length, 13 inches. Wt., 12 oz. Each...**.62c**  
**85B1317**—Wts., from 1/4 to 1 1/4 oz. each. Extra Drill Points. Each...**.4c**

## GOODSELL-PRATT RECIPROCATING DRILL

**85B1325** — For iron, brass, wood, etc. Steel mechanism. Lignumvitae head, ball bearing. Three-jawed chuck. Capacity up to 1/4 in. No drill bits furnished. (See 85B1060 for drills.) Weight, 1 1/2 lbs. Each...**\$1.35**

## AUTOMATIC DRILL

**85B1318** — Millers-Falls Drill. Brass, nickel-plated. Hollow Cocobola handle, holding eight drills. Average wt., 10 oz. With 8 oz. drills, 1/4 to 1 1/4 in. Each...**.90c**  
**85B1319** — Wts., from 1/4 to 1 1/4 oz. each. Extra points. Each...**.4c**

## AUTOMATIC DRILL

**85B1322** — Pratt No. 02. Same mechanism as 85B1318. Our more expensive styles but dull nickel finish. Cocobola handle holding 8 drill points. 1/4 to 1 1/4 in. Length, 9 1/2 in. Average weight, 8 oz. Each...**.67c**  
**85B1323** — Extra drill points. Wts., from 1/4 to 1 1/4 oz. each. Each...**.4c**

## MILLERS FALLS POCKET BORER

**85B1325** — Millers-Falls Automatic Drill. Steel mechanism. Nickel-plated. With magazine handle. Contains 8 drills, 1/8 to 1 1/4 in., and a screw driver bit. May be compressed to fit the pocket. Length, open 7 1/4 in. Compressed, 5 inches. Average weight, 12 oz. Each...**\$1.30**

## RECIPROCATING DRILL

**85B1326** — Goodsell - Pratt No. 102. With 8 drills 1/8 to 1 1/4 in. Ball bearing. Nickel-plated. Three-jawed chuck, capacity, 0 to 1/2 in. Length, 13 in. Average weight, 1 lb. Each...**\$1.25**  
**85B1327**—Extra drill points. Wts., from 1/4 to 1 1/4 oz. each. Each...**.40**

## CHAIN DRILLS FOR POSITIVE BORING

### CHAIN DRILLS BALL BEARING

An indispensable steel tool for machinists, plumbers or workers in iron, brass or metals. Made to use with a bit brace.

**85B1354** — With improved plain chuck for 1/2 in. steel, round or square shank bits. Average weight, 2 1/2 lbs. Each...**\$0.58**

### CHAIN DRILLS BALL BEARING

**85B1357** — With sleeve chuck for 1/2 inch round or regular square shank steel. Average weight, 2 1/2 lbs. Each...**\$1.00**

### AUTOMATIC CHAIN DRILLS

Automatic Feed. Ball Bearings. Three Feet Steel Chain

**85B1358** — Holds square shank drills. (85B1050). Wt., 3 lbs. Each...**\$1.35**  
**85B1359** — With three-jawed chuck, holding round shank drills, 0 to 1/2 in. steel. Average weight, 3 lbs. Each...**\$2.10**

### GIANT CHAIN DRILL

**85B1362** — Goodsell-Pratt Steel. Extra large and heavy. Two 5-ft. chains. Hand feed. Ball bearings. Hole is 1/2 inch round, taking 85B1055 drills. Average wt., 6 lbs. Ea...**\$2.35**

## RATCHET DRILL HANDLES FOR HEAVY WORK

### UNIVERSAL RATCHET HANDLE

**85B1345** — Hardwood head. Reversible ratchet movement. Holds square shank drills. Length, 8 in. Weight, 1 1/2 lbs. Each...**.98c**

### FRAY'S RATCHET HANDLE

**85B1346** — Steel chuck for round or square shank bits. Metal parts are nickel-plated. Length, 10 in. Wt., 2 1/2 lbs. Each...**\$1.35**

### RATCHET DRILL

**85B1348** — Goodsell - Pratt Ratchet Drill, a substantial steel tool. With reversible ratchet. With a three-jawed chuck. Capacity, 0 to 1/2 inch. For round shank drills. Length of handle, 8 in. Average weight, 2 lbs. Each...**\$1.35**

### RATCHET DRILL

**85B1350** — Keystone Ratchet Drill, for metal workers. Solid steel with socket to take regular bit stock drills. (See 85B1050.) Handle, 9 1/2 inches. Weight of head, 4 1/2 in. Average weight, 1 1/2 lbs. Each...**\$3.35**

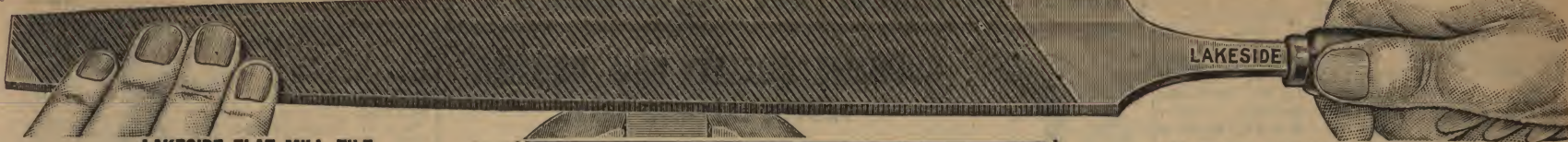
### MONARCH SINGLE-ACTING RATCHET DRILL

**85B1352** — Made of drop forged steel. Sockets are machine steel and handle of solid bar steel. Sockets take square shank drills. (See 85B1068.)

Length in.	Average Wt., lbs.	Each
10	3 1/2	\$4.00
12	3 3/4	4.40
15	4 1/2	4.80



# OUR FAMOUS LAKESIDE FILES AND RASPS



## LAKESIDE FLAT MILL FILE

**85B1460**—Bastard Cut. Square edges. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.

Size, in.	4	5	6	8	10	12	14	16
Wt., doz., lbs.	5 1/2	6 1/2	8 1/2	10 1/2	12 1/2	14 1/2	16 1/2	20 1/2
Each	50c	60c	80c	100c	130c	180c	250c	250c
Per doz.	560c	600c	670c	820c	1000c	1420c	2040c	2800c

## LAKESIDE FLAT MILL FILE—ONE ROUND EDGE

**85B1461**—Bastard cut, with one round edge. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.

Size, in.	4	5	6	8	10	12	14	16
Wt., doz., lbs.	5 1/2	6 1/2	8 1/2	10 1/2	12 1/2	14 1/2	16 1/2	20 1/2
Each	60c	60c	70c	80c	110c	140c	190c	280c
Per doz.	660c	660c	740c	820c	1120c	1400c	2080c	3120c

## LAKESIDE FLAT BASTARD FILE

**85B1462**—Bastard Cut, Lakeside Brand. Finest crucible steel, perfectly cut, correctly tempered.

Size, in.	4	5	6	8	10	12	14	16
Wt., doz., lbs.	5 1/2	6 1/2	8 1/2	10 1/2	12 1/2	14 1/2	16 1/2	20 1/2
Each	60c	60c	70c	80c	110c	140c	190c	280c
Per doz.	660c	660c	740c	820c	1120c	1400c	2080c	3120c

## THE JUSTLY CELEBRATED LAKESIDE FILES

Unexcelled for rapid cutting qualities, durability and general excellence. Made from high grade refined, crucible steel, carefully tempered. We do not handle "seconds" or goods that are imperfect in any respect. We save you 25 to 50 per cent, and will surely please you. Prices do not include handles. Buy Lakeside Files if you want the best.

## LAKESIDE ROUND BASTARD FILE

**85B1464**—Bastard Cut Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.

Size, in.	4	5	6	8	10	12	14	16
Wt., doz., lbs.	5 1/2	6 1/2	8 1/2	10 1/2	12 1/2	14 1/2	16 1/2	20 1/2
Each	50c	60c	80c	100c	130c	180c	250c	250c
Per doz.	560c	600c	670c	820c	1000c	1420c	2040c	2800c

## LAKESIDE HALF ROUND BASTARD FILE

**85B1465**—Bastard cut. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.

Size, in.	4	5	6	8	10	12	14	16
Wt., doz., lbs.	5 1/2	6 1/2	8 1/2	10 1/2	12 1/2	14 1/2	16 1/2	20 1/2
Each	60c	60c	70c	80c	110c	140c	190c	280c
Per doz.	660c	660c	740c	820c	1120c	1400c	2080c	3120c

## CUTLERY FILE

**85B1475**—Sharpens all kinds of cutlery quickly and easily with a few strokes. Extra quality 5 in. file. Smooth cut, both sides. With 4 in. wood handle having strong steel ferrule. Wt. about 3 oz. Each. 25c

## HANDY FARM FILE

**85B1483**—Especially for sharpening mowing machine knives. Better than a grind stone. Knife blade shape, smooth cut; not cut on the thick edge. Blade, 1 1/2 in. With wood handle having steel ferrule. Wt. 1/2 lb. Each. 25c

## LAKESIDE SQUARE BASTARD FILE

**85B1466**—Bastard Cut. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.

Size, in.	4	5	6	8	10
Wt., Doz.	4 oz.	5 oz.	14 oz.	9 lbs.	10 lbs.
Each	70c	70c	80c	\$0.09	\$0.12
Per Doz.	730c	780c	870c	\$0.90	\$1.40

## LAKESIDE HALF ROUND WOOD RASP

**85B1468**—Coarse cut. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.

Size, inches	6	10	12	14
Wt., Doz.	1 1/2 lbs.	6 lbs.	10 lbs.	10 lbs.
Each	\$0.14	\$0.25	\$0.32	\$0.42
Per Doz.	1.52	2.65	3.60	4.75

## LAKESIDE HALF ROUND WOOD FILE

Medium Cut

**85B1470**—Medium cut. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered.

Size, inches	10	12	14
Wt., Doz.	6 lbs.	10 lbs.	16 lbs.
Each	\$0.15	\$0.20	\$0.26
Per Doz.	1.73	2.25	2.96

## LAKESIDE CANT SAW FILES

**85B1472**—Single cut. Finest crucible steel, perfectly cut and correctly tempered.

Length	Weight, doz.	Per doz.	Each
5 in.	1 lb.	\$0.39	80c
6 in.	1 1/2 lb.	1.02	90c
8 in.	3 lb.	1.22	110c
10 in.	5 1/2 lb.	1.65	150c

## REGULAR TAPER SAW FILES

**85B1478**—Single cut on three sides. Finest steel, perfectly cut and correctly tempered.

Length	Weight, doz.	Per doz.	Each
3 in.	4 oz.	\$0.40	40c
4 in.	1 1/2 lb.	.42	40c
5 in.	1 1/2 lb.	.49	50c
6 in.	1 1/2 lb.	.65	60c
7 in.	2 1/2 lb.	.82	70c
8 in.	4 lb.	1.05	90c

## DOUBLE END TAPER FILES

**85B1482**—Single cut on all sides. Finest steel. Split wood handle.

Length	Weight, doz.	Per doz.	Each
7 in.	13 oz.	\$0.67	60c
8 in.	19 oz.	.74	70c
9 in.	26 oz.	.84	80c
10 in.	36 oz.	.93	90c

## LAKESIDE REGULAR HORSE RASPS

**85B1488**—Made of high grade, refined, crucible steel, correctly cut and carefully tempered. Best quality.

Size	12 in.	14 in.	16 in.
Weight, each	20 oz.	26 oz.	39 oz.
Each	\$0.20	\$0.28	\$0.36
Dozen	2.25	3.00	4.20

## IRON FILE AND TOOL HANDLE

**85B1500**—Malleable iron, japanned. With thumb screw to securely hold a file or other small tool. Length, 5 in. Weight, 5 oz. Each. 60c

## STEEL FILE CLEANER

**85B1504**—Colton's Patent File Cleaner. With steel back and frame; steel bristles and steel picker. Length, 7 1/2 in. Wt., 4 oz. Each. 17c

## WOOD FILE CLEANER

**85B1505**—With plain wood back and steel bristles. Length, 8 1/2 in. Weight, 4 oz. Each. 80c

## FILE BRUSH AND CLEANERS

**85B1506**—Combined File Card and Brush, hardwood back. Length, 8 1/2 in. Weight, 5 oz. Each. 16c

## LAKESIDE PIT SAW FILES

**85B1474**—Semi-circular shape. Single cut on both sides. Finest steel, correctly tempered.

Length	Weight, doz.	Per doz.	Each
5 in.	1 lb.	\$1.02	90c
6 in.	1 1/2 lb.	1.16	100c
8 in.	3 lb.	1.42	130c
10 in.	6 1/2 lb.	1.73	150c

## SLIM TAPER SAW FILES

**85B1480**—Single cut on three sides. Finest steel, perfectly cut and correctly tempered.

Length	Wt., doz.	Per doz.	Each
3 in.	2 oz.	\$0.39	40c
3 1/2 in.	3 oz.	.40	40c
4 in.	4 oz.	.42	40c
4 1/2 in.	5 oz.	.44	40c
5 in.	6 oz.	.48	50c
6 in.	10 oz.	.65	60c
7 in.	16 oz.	.82	70c
8 in.	26 oz.	1.05	90c

## WOOD FILE HANDLES

**85B1495**—Soft Whitewood, with metal ferrule. Assorted sizes. Wt., per doz., 12 oz. Each. 2c

## INDESTRUCTIBLE FILE HANDLES

With Steel Ferrule. When file tang is driven in, the wood is expanded against the ferrule and holds the file perfectly solid. Weight, each, 2 to 5 oz.

For files	In.	Length, in.	Dozen	Each
85B1496	4 to 5	4	42c	40c
85B1497	6 to 7	5	50c	50c
85B1498	10 to 12	6	55c	60c
85B1499	14 to 16	8	65c	70c

## LAKESIDE SLIM HORSE RASP

**85B1489**—Finest steel, carefully tempered. Length, 18 in. Weight, each, 2 1/2 lbs. A very popular style. Best quality. Each. 38c

## HELLER BROS. HORSE RASPS

**85B1490**—Genuine Heller Bros. R. a.s.p. Made of special refined crucible steel, tempered by a secret process. Have an excellent reputation throughout the world.

Size	12 in.	14 in.	16 in.
Weight	12 lb.	14 lb.	16 lb.
Each	27c	33c	52c

## HANDY AUGER BIT FILE

**85B1485**—For filling all sizes auger bits without filling the screw and lip away. Extra quality steel. Length, 7 in. Wt., each, 1/2 oz. Each. 80c

## PERFECT HANDLE SCREW DRIVERS

**85B1416**—Drop forged steel, of one piece. With wood handles, pocketed in each side. Will stand all kinds of hard usage. Carefully tempered and tested. Length, 5 to 16 oz.

Total length, in.	8 1/2	11 1/4	14 1/4	16 1/4
Each	20c	28c	38c	48c

## PERFECT EXTRA HEAVY SCREW DRIVER

**85B1417**—The square shank permits the use of a wrench on heavy work. Forged steel, one piece. With wood handles pocketed in each side of the forging. A heavy, high quality tool. Length, 9 inches. Length of blade, 4 1/2 inches. Weight, 10 oz. \$1.00 retail value. Each. 60c

## PERFECT THREE BIT SCREW DRIVER

**85B1418**—A wonderful convenience for screws in places hard to get at with the ordinary screw driver. Has regular bit at end, a bit on one side running lengthwise and a bit on the other side running crosswise. Forged from tool steel, properly tempered. With wood handle pocketed on both sides. Total length, 9 in. Blade, 5 in. Width of bits, 3/8 in. Weight, 8 oz. Each. 30c

## CHAMPION SCREW DRIVERS

**85B1422**—Genuine Champion Screw Driver, one of the finest made. The blade is forged from the toughest steel, fastened securely into a fluted apwood handle. Every blade is tested to split a screw head before leaving the factory. Usual 25c to 60c retail value.

Blade, in.	3	4	6	8	10
Total length, in.	7	8 1/2	11 1/4	14 1/4	17
Each	13c	16c	25c	30c	35c

## PIANO SCREW DRIVERS

**85B1425**—With slender steel blades. Solid rosewood handles. For piano makers, electricians, machinists, etc. Wt., 3 to 6 oz.

Blade, in.	3	4	6	8	10
Length, in.	7 1/2	8 1/2	11 1/4	13 1/4	15 1/4
Each	19c	21c	26c	32c	37c

## STANDARD SCREW DRIVERS

**85B1430**—With Round Hardwood Handle, tapered steel ferrule. Forged steel blades. Nicely finished. Usual 15c to 25c retail value. Wt., 3 to 6 oz.

Blade, in.	4	6	8
Length, in.	8	10 1/2	13
Each	8c	12c	14c

## \$1.10 AUTOMATIC SPIRAL SCREW DRIVER

**85B1400**—Goodell-Pratt Latest Improved Automatic Spiral Ratchet Screw Driver, No. 111. A strong, practical tool. Capable of either right or left hand work automatically or as a ratchet or a solid screw driver. The mechanism of this tool is as simple as it is possible to make it and still provides for the various changes necessary to accomplish the right, left, rigid, automatic, or ratchet work. Length, extended, with bit in place, 18 in. Length, closed, with bit removed, 10 in. Complete with three polished steel screw-driver bits. A handsome, well finished tool. \$1.50 retail value. Weight, 1 lb. Our price, each. \$1.10 (For Drill Attachment See No. 85B1412.)

## AUTOMATIC SPIRAL SCREW DRIVER

**85B1402**—Millers Falls Spiral Screw Driver. The spiral grooves are made one deeper than the other to prevent wear. Instantly adjusted for right or left hand, or locked stationary by turning the shell on the handle. Length, extended, 20 in. Three bits, 3 in. long, with each tool, two of them double end, giving five points in all. Steel, with hardwood handle. Weight, 22 oz. Each. \$1.30

## DRILL ATTACHMENT

**85B1412**—Drill Chuck and 3 fluted drill points. The shank fits Screw Drivers Nos. 85B1400 and 85B1402, and enables them to be used as automatic drills. Weight, 3 oz. Each. 43c

## SOLID BLADE SCREW DRIVERS, 15c

**85B1420**—A high grade tool. Forged steel blade, riveted through ferrule, black hardwood fluted handle. Blade extends through handle to permit pounding without damage to handle. Weights, 4 to 11 oz.

Blade, inches	4	6	8	10
Length, inches	8 1/2	11 1/4	14 1/4	16 1/4
Each	15c	20c	28c	34c

## COMMON SCREW DRIVERS

**85B1434**—With Beechwood Handles, brass ferrules. Cast steel blades.

Blade, in.	Length in.	Wt. oz.	Each
6	11 1/2	5	8c
8	13 1/2	7	10c

## GOODSELL-PRATT POCKET SCREW DRIVER

**85B1477**—A handy high grade screw driver for pocket or desk use, or for sewing machines, typewriters, automobiles, etc. High grade, tempered steel, 1 1/2 in. blade, Hardwood handle, Length, 3 1/2 in. Wt., 3 oz. Each. 10c

## AUTOMATIC SCREW DRIVER

**85B1406**—Goodell-Pratt Spiral Screw Driver, No. 22. A practical high grade tool for driving, and drawing screws automatically. Two separate spirals, each working entirely independent of the other. With 3 bits. Steel, with hardwood handle. Length extended, 16 in. Weight, 15 oz. Each. \$1.05

## AUTOMATIC SCREW DRIVERS

Goodell-Pratt Screw Drivers. Can be used as an Automatic, Ratchet, or a Plain screw driver. Three bits with each tool. Weight, 10 to 16 oz.

85B1408	Length extended, 14 in.	Each. 65c
85B1409	Length extended, 16 in.	Each. 70c
85B1410	Length extended, 18 in.	Each. 83c

## CHAMPION PATTERN SCREW DRIVERS

**85B1426**—With fluted hardwood handles, metal ferrule and forged steel blades. A bargain at our low prices. Weight, 4 to 6 oz.

Blade, in.	4	6	8	10
Length, in.	8	11 1/4	14	16 1/4
Each	80c	12c	14c	16c

## INTERCHANGEABLE POCKET SCREW DRIVER

**85B1438**—Nickel-plated, brass handle. Contains 3 steel screw-driver bits and 1 reamer. With screw chuck. Length, closed, 3 1/2 in. Weight, 5 oz. Each. 42c

## SCREW DRIVER BITS

**85B1108**—Extra Quality Steel. Polished and tempered. Points cross-ground to prevent slipping. Length, 4 1/4 in. Wt., 3 oz. Each. 17c

**85B1109**—Standard grade cast steel. Length, 4 1/4 in. Wt., 2 oz. Each. 5c

## RATCHET SCREW DRIVERS

**85B1448**—Goodell-Pratt Ratchet Screw Driver. Strong, steel blades, finely finished. Changes from right to left or to rigid by turning knurled ferrule. Weight, 4 to 8 oz.

Total length, in.	4 1/2	5 1/2	6 1/2	8 1/2	10 1/2	12 1/2	14 1/2
Each	28c	34c	37c	42c	45c	50c	57c

**85B1449**—Set of 4 as above, 2, 4, 6, 10 in. Weight, 1 1/4 lbs. Per set. \$1.50

## FRICITION CAP SC



**LAKESIDE PLAIN FACE HAMMER**

Lakeside nail hammer. Plain face. Forged from high grade crucible steel, finely polished and tempered. Extra quality hickory handle.

**85B1524—Size 1:** weight of head, about 1 1/4 lbs. Each...**45c**

**85B1525—Lakeside hammer.** Plain face. Size, 1 1/4; weight of head, about 1 lb. Each...**42c**

**SOLID STEEL HAMMERS BELL FACE**

**28c**

**32c**

Cast steel, Bell face, Adze eye, full polished, with hickory handle. Excellent value.

**85B1543—Size 1.** Weight of head, 1 1/4 lbs. Each...**32c**

**85B1544—Size 1 1/2.** Wt. of head, 1 lb. Each...**30c**

**85B1545—Size 2.** Wt. of head, 13 oz. Each...**28c**

**SOLID STEEL HAMMERS PLAIN FACE**

**28c**

**32c**

Cast steel adze-eye nail hammers. Polished and finished. With hickory handles.

**85B1540—Size 1.** Wt. of head, 1 1/4 lbs. Each...**32c**

**85B1541—Size 1 1/2.** Wt. of head, 1 lb. Each...**30c**

**85B1542—Size 2.** Wt. of head, 13 oz. Each...**28c**

**85B1530—Lakeside brand Rip-ping hammer.** Bell Face. High grade forged steel. Polished and finished. With best hickory handle.

Weight of head, 1 lb. Each...**45c**

**MAGNETIC TACK HAMMER**

**85B1602—**With a claw which will extract the most obstinate tack. Cast steel. Wood handle. Total wt., 7 oz. Each...**12c**

**MAGNETIC TACK HAMMER**

**85B1600—**Extra quality. Polished, tempered steel. Magnetic point. Will pick up and hold firmly small tacks and nails. Total wt., 6 oz. Each...**35c**

**UPHOLSTERER'S HAMMER**

**85B1605—**Forged steel, polished, Hickory handle, a fine tool. Not magnetic. Total weight, 1/2 lb. Each...**30c**

**LAKESIDE SHINGLING HATCHETS**

**85B1640—**Extra quality cast steel, polished and bronzed. Hickory handles. Ship. wt., 1 1/2 to 2 1/2 lbs.

Size 0. Width bit, 3 in. Wt. head, 18 oz. Each...**40c**

Size 1. Width bit, 3 1/2 in. Wt. head, 17 oz. Each...**44c**

Size 2. Width bit, 4 in. Wt. head, 1 1/2 lb. Each...**45c**

Size 3. Width bit, 4 1/4 in. Wt. head, 1 lb. 13 oz. Each...**48c**

**PERFECT HANDLE HATCHET**

**85B1646—**Forged in one piece. Solid tool steel. Finely tempered, and has a water-proofed wood handle securely riveted in pockets on both sides of handle. Impossible for handle to break. Tool is well balanced, finely finished and is free from defects. Size No. 2. Width of bit, 3 1/2 in. Wt., with handle, 1 1/2 lbs. Ship. wt., about 2 1/2 lbs. Each...**85c**

**BOY SCOUT STANDARD AXE**

**85B1667—**Widely used by Boy Scouts and Hunters. Solid forged steel head. Attractive, black gun metal finish. Width of blade, about 3 in. With nail pulling slot. Fitted with 13 in. well formed, attractively stained hickory handle. Complete, with neat leather case for blade. Wt., about 2 lbs. Each...**75c**

**LAKESIDE BROAD AXE WESTERN PATTERN**

**\$1.60**

**85B1720—**High grade steel, properly shaped, with a good keen cutting edge. Face is ground true and accurate. Handles not included. Ship. wt., 7 to 9 1/4 lbs.

Av. width blade, in... 11 11 1/2 12  
Av. weight, lbs... 6 6 1/2 6 3/4  
Each (give size)... **\$1.60 \$1.65 \$1.70**

Av. width blade, in... 12 13 13 1/2  
Av. weight, lbs... 7 8 8 1/2  
Each (give size)... **\$1.75 \$1.80 \$1.85**

# HAMMERS OF QUALITY

**SUPREME QUALITY NAIL HAMMER FAMOUS LAKESIDE BRAND**

**Full Nickel Plated Hammer at 68c-70c**

These hammers are forged from the finest quality of crucible tool steel, carefully tempered and tested. The design and shape are the results of careful study of the requirements and preference of high grade, critical workmen. You will find them to be correctly proportioned, with the proper hang and proper curve to the claw. Each hammer is finely finished, carefully tempered and fitted with extra quality hickory handle, wedged in so it cannot come out. There is no better hammer made at any price. Each one will give absolute satisfaction.

**85B1520—**Supreme Quality Lakeside Nail Hammer, as illustrated above. Octagon face and neck. Nickel plated. Size 1. Weight of head, 1 lb. 4 oz. Each...**70c**

**85B1521—**Supreme Quality Lakeside Hammer, same as above, but one size smaller. Octagon face and neck. Size 1 1/2. Weight of head, 1 lb. Full nickel-plated. Each...**68c**

**FARMER'S RE-INFORCED HAMMER**

**85B1532—**Head is forged from the best cast steel and the handle is strengthened by a Malleable Wedge Plate, which also prevents the head from loosening. A good hammer for general use. With hickory handle. Weight, with handle, 1 lb. Each...**55c**

**NAIL HOLDING HAMMER**

**85B1534—**Will hold and start any size or shape nails. Forged from best crucible steel, nicely finished with hickory handle. Carpenters will appreciate this hammer, as a nail may be driven where they could not reach it with the hand. Weight of head, 14 oz. Each...**76c**

**THE UTILITY HAMMER**

**85B1535—**Combines a hammer, nail puller, staple puller and wrench. Solid forged steel, tempered and polished. The under side of claw is notched, forming a wrench which will take square nuts up to 1/4 in. Wt. with handle, 1 1/2 lbs. Each...**53c**

**STANLEY HAMMERS**

Genuine Stanley Hammer No. 12. Bell face. Claws grip, and hold nails at any point. Best hickory handle.

No.	Wt.	Each
85B1559	13 oz.	48c
85B1561	16 oz.	50c
85B1562	20 oz.	55c

**MACHINISTS' HAMMER HANDLES**

**85B1566—**Clear hickory, well finished. Length, 18 in. Weight, each, 8 oz. Each...**50c**

Per dozen...**50c**

**NAIL HAMMER HANDLES**

**85B1560—**First-class hickory handles for carpenters' adze-eye nail hammers. Length, 14 in. Weight, each, 6 oz. Each...**45c**

Per doz...**45c**

**RIVETING HAMMER HANDLES**

**85B1571—**Clear Hickory, well finished. Length, 18 in. Weight, each, 4 oz. Each...**45c**

Per dozen...**45c**

**LEAD HAMMERS AND MOULDS**

**85B1583—**Lead hammer, 3-lb., with steel handle. With cast iron mold for remolding the hammer heads when battered. Very convenient. Wt., complete, about 5 lbs. Per set...**\$1.40**

**85B1584—**Lead hammer only. Wt., with handle, 3 1/4 lbs. Each...**50c**

**MACHINISTS' LAKESIDE HAMMERS FINE VALUES**

**85B1565—**Lakeside Machinists' Ball Pein Hammer, solid forged steel, octagon neck. Hickory handles. (Give size.)

Size	Weight of head	Each
00	12 oz.	30c
0	1 lb.	32c
1	1 1/4 lbs.	34c
2	1 1/2 lbs.	37c
3	1 3/4 lbs.	39c
4	2 lbs.	42c

**MACHINISTS' PERFECT HAMMERS**

**85B1568—**Drop forged steel, in one piece. With a water-proof wood handle pocketed in and securely riveted. A valuable addition to the mechanic's or automobilist's tool kit. Total length, 10 in. Diameter of face, 1 in. Weight, with handle, 18 oz. \$1.00 value. Each...**58c**

## FAMOUS LAKESIDE HATCHETS

**LAKESIDE BROAD HATCHETS RUSTLESS BLACK FINISH**

**85B1650—**Extra cast steel. Polished head and edges. Hickory handles. A very handsome high grade tool. Ship. wt., 2 to 3 lbs.

Size	Weight of head	Width bit	Each
0	1 lb. 12 oz.	4 1/2 in.	60c
1	1 lb. 9 oz.	5 in.	70c
2	1 lb. 8 oz.	5 1/2 in.	80c
3	1 lb. 4 oz.	6 in.	90c

**LAKESIDE HALF HATCHET**

**85B1654—**With octagon neck, and poll. Extra quality crucible steel, carefully tempered. Polished head and bronzed hickory handle. Ship. wt., about 2 lbs.

Size 1: Width of bit, 3 1/2 in. Wt. of head, 15 oz. Each...**60c**

Size 2: Width of bit, 3 3/4 in. Wt. of head, 1 lb. 5 ounces. Each...**65c**

**LAKESIDE HALF HATCHET**

**85B1656—**Lakeside half hatchets. Haines pattern with bell poll. Solid cast steel, thin blade, full polished. Hickory handle. Ship. wt., about 2 lbs.

Size 1: Width of bit, 3 1/2 in. Wt. of head, 14 oz. Each...**75c**

Size 2: Width of bit, 3 3/4 in. Wt. of head, 1 1/2 lb. Each...**78c**

**LAKESIDE CLAW HATCHETS**

**85B1648—**Lakeside claw hatchets. Extra quality cast steel, polished and bronzed finish. Best hickory handle. Shipping weight, about 2 1/2 to 3 1/2 lbs.

Size 1. Width of bit, 3 1/2 in. Wt. of head, 1 1/4 lbs. Each...**48c**

Size 2. Width of bit, 4 in. Wt. of head, 1 1/2 lbs. Each...**52c**

Size 3. Width of bit, 4 1/4 lbs. Wt. of head, 2 lbs. Each...**55c**

**FLOORING HATCHETS**

**85B1652—**Lakeside Special Flooring Hatchet. Hand forged, extra quality. Rustless black finish. Polished head and edges. Fine hickory handle. Ship. wt., about 3 lbs. (Give size.)

Size 1. Width of bit, 3 1/2 in. Wt. of head, 1 lb. 14 oz. Each...**62c**

Size 2. Width of bit, 4 1/4 in. Wt. of head, 1 lb. 8 oz. Each...**68c**

Size 3. Width of bit, 4 1/2 in. Wt. of head, 1 lb. 14 oz. Each...**78c**

**HATCHET HANDLES**

Hickory hatchet handles. Best quality. (Give size.)

**85B1676—**For Shingling Hatchets. Length, 13 in. Average wt., 6 oz. Each...**50c**

**85B1678—**For Shingling and Claw Hatchets. Length, 15 in. Average wt., 8 oz. Each...**60c**

**85B1677—**For Broad Hatchets. Length, 17 in. Average wt., 10 oz. Each...**80c**

**LATH HATCHETS**

**85B1664—**Lakeside Lath Hatchet. Haines pattern, with bell poll. Extra quality solid cast steel, full polished thin blade. Hickory handle. Width of bit, 2 in. Wt. of head, 14 oz. Ship. wt., about 2 lbs. Each...**95c**

**STANDARD LATH HATCHET**

**85B1668—**Cast steel, polished and bronzed. Hickory handle. Width of bit, 2 1/2 in. Wt. head, 10 oz. Each...**35c**

Width bit, 2 1/2 in. Wt. head, 14 oz. Each...**40c**

**HUNTERS' AXE**

**85B1672—**Lakeside Hunters' Axe. Extra cast steel, with steel poll, polished and bronzed finish. A popular axe with the hunter, and an excellent size and weight for use about house as well as in camp. Fitted with 14 in. hickory handle. Width of bit, 2 1/2 in. Weight, with handle, 1 1/2 lbs. Fine value. Each...**48c**

**CARPENTERS' ADZES**

**85B1724—**Black rustless finish. Forged steel. Handles not included. (Give size.) Ship. wt., about 4 lbs. Width blade, about 3 1/2 in. Each...**98c**

Width blade, about 4 in. Each...**\$1.00**

**SHIP ADZE WITH LIP**

**85B1726—**Lakeside brand. With lips on each side of blade. Handles not included. Wt., 2 1/2 and 3 1/4 lbs. Shipping wt., about 4 lbs. Width blade, about 4 in. Each...**\$1.15**

Width blade, about 4 1/2 in. Each...**\$1.20**

**COOPERS' FROES**

**85B1730—**Forged Steel, polished edge. For making staves, and splitting shingles. Average wt., 4 lbs. Give size. Length blade, 12 in. Each...**40c**

Length blade, 14 in. Each...**45c**

**ADZE HANDLES**

**85B1766—**Made of selected young growth hickory, smooth and finely finished. Length, 34 in. Average wt., 1 1/2 lbs. Each...**25c**

**BROAD AXE HANDLES**

**85B1764—**Extra quality Hickory. Length, 36 in. Right or left hand. Average weight, 1 1/2 lbs. Each...**25c**



# FAMOUS LAKESIDE HIGH GRADE AXES

WE offer here our Lakeside Special Axe as a tool which will please and satisfy the most critical woodsman. This is a top notch, quality axe in every respect and we know of none better in the market at any price. Made of special analysis steel, accurately shaped, carefully tempered and finished in a handsome jet black rustless finish. Flint edge, hand honed, ready for use. Each axe thoroughly inspected and tested, and will give perfect satisfaction.



## LAKESIDE SPECIAL SINGLE BIT AXE. MICHIGAN PATTERN

Rustless black finish. The handled axes are accurately fitted with selected best quality white hickory handles, octagon shape with scroll end. Width of bit, about 5 in.

WITH HANDLE		WITHOUT HANDLE	
185B1679—Fitted with finest grade octagon hickory handle. Shipping weight, about 7 lbs.		185B1680—Axe head only. Without handle. Shipping weight, about 7 lbs.	
Wt. of head, lbs. .... 3 3/4 4 4 1/2 5		Wt. of head, lbs. .... 3 3/4 4 4 1/2 5	
Each ..... 85c 85c 90c 95c \$1.00		Each ..... 55c 55c 60c 65c 70c	

## LAKESIDE SPECIAL DOUBLE BIT AXE MICHIGAN PATTERN

Rustless black finish. The handled axes are accurately fitted with selected best quality, white hickory handles, octagon shape, as shown. Width of bit, about 5 in.

WITH HANDLE		WITHOUT HANDLE	
185B1681—Fitted with finest grade octagon hickory handle. Shipping weight, about 7 lbs.		185B1682—Axe head only, without handle. Shipping weight, 6 lbs.	
Wt. of head, lbs. .... 4 4 1/2 5		Wt. of head, lbs. .... 4 4 1/2 5	
Each ..... \$1.10 \$1.15 \$1.20		Each ..... 80c 85c 90c	



## LAKESIDE RAZOR BLADE AXE SINGLE BIT

Our Famous Razor Blade Axe. Michigan pattern. High grade steel. Full polished and etched. Has a thin, keen cutting edge. The handled axes are accurately fitted with excellent, octagon, second growth hickory handles.

WITH HANDLE		WITHOUT HANDLE	
185B1704—Fitted with high grade octagon handle. (Give size.) Shipping wt., about 7 lbs. Width of bit, about 5 in.		185B1705—Axe head only, without handle. (Give size.) Shipping wt., about 6 lbs. Width of bit, about 5 in.	
Wt. of head, lbs. .... 3 3/4 4 4 1/2 5		Wt. of head, lbs. .... 3 3/4 4 4 1/2 5	
Each ..... 75c 80c 85c 90c		Each ..... 50c 55c 60c 65c	

## LAKESIDE RAZOR BLADE AXE DOUBLE BIT MICHIGAN PATTERN

Our Famous Razor Blade Double Bit Axe. Michigan pattern. High grade steel. Full polished and etched. Has a thin, keen cutting edge. The handled axes are accurately fitted with extra quality, Octagon, second growth hickory handles.

WITH HANDLE		WITHOUT HANDLE	
185B1707—Fitted with high grade octagon handle. (Give size.) Shipping wt., about 7 lbs. Width of bit, about 5 in.		185B1708—Axe head only, without handle. (Give size.) Shipping wt., about 6 lbs. Width of bit, about 5 in.	
Wt. of head, lbs. .... 4 4 1/2 5		Wt. of head, lbs. .... 4 4 1/2 5	
Each ..... \$1.00 \$1.05 \$1.10		Each ..... 75c 80c 85c	

## LAKESIDE CLIP-CUT AXE SINGLE BIT MICHIGAN PATTERN

Our Clip Cut Axe. Michigan pattern. One of the fastest cutting and best axes on the market. Has a thin phantom bevel blade, which will not stick or bind in the timber. High grade steel, finely tempered. Polished and bronzed, with blue bevels.

WITH HANDLE		WITHOUT HANDLE	
185B1698—Fitted with oval, second growth hickory handle. (Give size.) Ship. wt., about 7 lbs. Width of bit, about 5 in.		185B1700—Axe head only, without handle. (Give size.) Shipping wt., about 6 lbs. Width of bit, about 5 in.	
Wt. of head, lbs. .... 3 3/4 4 4 1/2 5		Wt. of head, lbs. .... 3 3/4 4 4 1/2 5	
Each ..... 65c 70c 75c 80c		Each ..... 45c 50c 55c 60c	

## EASY CHOP AXE



Wt. lbs.	Each
3	45c
3 3/4	45c
4	50c
4 1/2	55c
5	60c

## EASY CHOP AXE



Wt. lbs.	Each
3 1/2	45c
4	50c
4 1/2	55c
5	60c

## LAKESIDE EASY CHOP AXE SINGLE BIT

Our Easy Chop Axe. Michigan pattern. Single Bit. A strictly high grade axe with a keen cutting edge. Extra refined steel carefully tempered. Polished and bronzed finish.

WITH HANDLE		WITHOUT HANDLE	
185B1686—Fitted with extra quality oval white hickory handle. Width of bit, about 5 in. Shipping weight, about 7 lbs.		185B1688—Axe head only, without handle. Width of bit, about 5 in. Ship. wt., about 6 lbs.	
Wt. of head, lbs. 3 3/4 4 4 1/2 5		Wt. of head, lbs. 3 3/4 4 4 1/2 5	
Each ..... 60c 60c 65c 70c 75c		Each ..... 40c 40c 45c 50c 55c	

## LAKESIDE EASY CHOP AXE DOUBLE BIT MICHIGAN PATTERN

Our Easy Chop Double Bit Axe, Michigan pattern, is a strictly high grade axe, with a thin, keen cutting edge. Extra refined steel, carefully tempered. Polished and bronzed finish.

WITH HANDLE		WITHOUT HANDLE	
185B1691—Fitted with high grade oval white hickory handle. Shipping wt., about 7 lbs. Width of bit, about 5 in.		185B1692—Axe head only, without handle. Shipping weight, about 6 lbs. Width of bit, about 5 in.	
Wt. of head, lbs. .... 4 4 1/2 5		Wt. of head, lbs. .... 4 4 1/2 5	
Each ..... 85c 90c 95c		Each ..... 65c 70c 75c	

## LAKESIDE EASY CHOP BOYS' AXE 50c

185B1710—Easy Chop Boys' Axes. Made from extra refined steel. Same superior quality and workmanship as found in our full size axes. Polished and bronzed finish. Fitted with first quality, 26 in., hickory handles. Width of bit, 4 in. Weight with handle, 3 1/2 lbs. Shipping weight, about 3 1/2 lbs. Each ..... 50c

# AXE HANDLES AND LOGGING TOOLS

## CANT HOOKS

185B245—For handling logs. With 4 1/2 ft., heavy, hard maple handles. Duck bill hooks and extension toe-ring which protects handle. \$1.25 value. Average ship. wt., 6 1/2 lbs. Each ..... \$ .92  
Per doz. .... 10.50  
185B246—Extra handles. Selected maple. Length, 4 1/2 feet. Wt., about 4 lbs. Each ..... 22c

## SKIDDING TONGS

185B250—Forged crucible steel. Will open 32 in. Made of 1 1/2 in. oct. steel, strong and substantial. Swivel hook. Average shipping wt., 20 lbs. Each ..... \$2.95

## LUG HOOKS OR TIMBER CARRIERS, \$1.10

185B252—Will grapple from 3 in. to 16 in. Hooks are "duck" bill pattern, made of forged steel. Handles of hard maple. Length, 42 in., with swivel. Ship. wt., 7 pounds. Each, complete ..... \$1.10

## LAKESIDE SINGLE BIT AXE HANDLE, 30c OCTAGON SHAPE

185B1750—Our Lakeside Axe Handle is made of extra select second growth hickory, hand shaved, octagon shape. One of the very finest handles on the market. Perfect in every detail. Look for the label Lakeside on each handle. Length, 36 in. Weight, each, 1 1/2 lbs. Per dozen ..... \$3.50  
Each ..... 30c

## OVAL HICKORY AXE HANDLES

### SINGLE BIT

185B1752—Turned No. 1 Hickory. Length, 36 in. Well finished. Wt., each, 1 1/2 lbs. Each ..... 14c  
Per Dozen ..... \$1.60  
185B1753—Oval Hickory, XXX grade, smooth and correctly shaped. Length, 36 in. Weight, each, 1 1/2 lbs. Per dozen ..... \$2.60 Each ..... 23c

## OCTAGON HICKORY AXE HANDLES

### SINGLE BIT

185B1754—Select young hickory, XXX grade. Length, 36 in. Wt., ea., 1 1/2 lbs. Each ..... 24c  
Per dozen ..... \$2.65

## LAKESIDE DOUBLE BIT AXE HANDLE OCTAGON SHAPE

185B1756—One of the very finest handles on the market. Made of extra select second growth hickory, hand shaved. Length, 36 inches. Look for the label Lakeside on each handle. Weight, each, 1 1/2 lbs. Per dozen ..... \$3.50  
Each ..... 30c

## BLUE OAK AXE HANDLES

### SINGLE BIT

185B1760—Oval, light pattern. Well finished. Becoming very popular. Length, 36 in. Weight, each, 1 1/2 lbs. Per dozen ..... \$2.30 Each ..... 20c

## BLUE OAK AXE HANDLES

### DOUBLE BIT

185B1761—Oval, light pattern. Length, 36 in. Weight, each, 1 1/2 lbs. Per dozen ..... \$2.30  
Each ..... 20c

## OVAL HICKORY AXE HANDLES

### DOUBLE BIT

185B1758—Turned oval hickory. Smooth and well finished. No. 1 grade. Length, 36 in. Weight, each, 1 1/2 lbs. Per dozen ..... \$1.60  
Each ..... 14c

## HICKORY MAUL HANDLES

185B1737—Turned hickory. Length, 36 in. To fit our Wood Choppers' Maules. Weight, each, 1 1/2 lbs. Per dozen ..... \$1.65  
Each ..... 15c

## STEEL WOOD WEDGES

185B1732—Forged steel, oil finish. Average length, 9 in. Weights will vary. (Give size.) Wt., lbs. Each ..... 14c  
4 1/2 ..... 18c  
5 ..... 18c

## WOOD-CHOPPERS' MAULS

185B1736—Oregon pattern. Forged steel, oil finish. Without handles, 10 in. Wts. will vary. (Give size.) Wt., lbs. Each ..... 20c  
4 ..... 25c  
5 ..... 33c  
6 ..... 35c  
8 ..... 40c

## AXE HANDLE WEDGES

185B1770—Malleable iron. Convenient for tightening any loose axe handle. Length, 2 1/2 in. Wt., per doz., 1 1/2 lbs. Per dozen ..... 18c

# LAKESIDE CRUCIBLE STEEL CROSS CUT SAWS

SEE INDEX FOR OUR COMPLETE LINE

## LAKESIDE SPECIAL GROUND SAWS \$2.50 ARC GROUND—TUTTLE TOOTH



185B205—Lakeside Special Saw, ground to a uniform thickness on cutting edge, with a uniform reduction in thickness from each end of the saw to the center, as well as from the teeth to the back. Steel blade cutting edge is 14 gauge, back, 16 gauge, and center of saw, 19 gauge. A fast cutting saw which requires but little set. One of the finest made. Usual retail value, \$3.50 to \$4.25. (Prices do not include handles.) Length, feet ..... 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2  
Shipping weight, pounds ..... 5 6 7 8 9 10 11 12  
Each ..... \$2.50 \$2.75 \$3.00 \$3.25

## LAKESIDE PERFORATED LANCE TOOTH \$1.70



185B208—Lakeside Perforated Lance Tooth Saws. Polished steel blade. Thin back; ground to a true taper, four gauges thinner in the back than in the cutting edge. Will cut rapidly and easily, and will not bind in the timber. Usual \$2.50 to \$3.00 retail value. (Price without handles.) Length, feet ..... 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2  
Shipping weight, pounds ..... 5 6 7 8 9 10 11 12  
Each ..... \$1.70 \$1.85 \$2.00 \$2.15



The Heaviest Timber Yields Readily to Lakeside Tools.

## LAKESIDE CHAMPION ONE-MAN SAWS \$1.00



185B211—Lakeside One-Man Saws, with Champion Tooth, taper ground, two gauges thinner on back than on tooth edge. Polished steel blade. Regular retail value, \$1.50 to \$2.50. (Prices include one supplementary handle.) Length, feet ..... 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2  
Shipping weight, pounds ..... 3 4 5 6 7 8 9 10  
Each ..... \$1.00 \$1.15 \$1.35 \$1.50

## LAKESIDE PERFORATED LANCE TOOTH ONE-MAN SAW \$1.75 ARC GROUND



185B219—Lakeside Special, arc ground saw, with skew back. A fine, high grade, fast cutting saw, requiring but little set. Ground to a uniform thickness at cutting edge with a uniform reduction in thickness from the teeth to the back, as well as from the point to the handle. Steel blade cutting edge is 15 gauge; back is 17 gauge at point, tapering to 19 gauge at the handle. Large, comfortable handle. Usual retail value, \$2.50 to \$3.75 each. Length, feet ..... 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2  
Shipping weight, pounds ..... 3 4 5 6 7 8 9 10  
Each (with supplementary handle) ..... \$1.75 \$2.00 \$2.25 \$2.50



# BIG VALUES IN HIGH GRADE CARPENTERS' STEEL SQUARES

## COMBINATION SQUARE

## PERFECTED—TAKE-DOWN—RAFTER SQUARE

## TRY SQUARE

## STANDARD STEEL SQUARES

Designed particularly for carpenters. Has a fine steel blade, graduated in 8th, 12th, 32nd and 48th inches. Metal head, finely finished and accurate. Usual retail value, \$1.25 to \$2.00.

**85B1922**—With 12-inch blade. **88c**  
Weight, 14 oz. Each

**85B1923**—With 18-inch blade. **\$1.32**  
Weight, 18 oz. Each

**WATERPROOF CASE**

**Covers All Uses \$1.95**

**Works Easy**

This Take-apart-Joint is the best one ever applied to a square. It consists of a tapering dove-tail tongue and groove, which, when pulled tight by turning a small slotted cam, insures an absolutely true joint. This cam, when loosened, releases the tongue, making the square very easy to take apart, as there is no spring to bind. The new complete Rafter Table is easily understood and shows 16 different measures for the following: Length of common rafter, per foot run; length of Hip or Valley rafter, per foot run; difference in length of jacks, 16 inch centers; difference in length of jacks, 2 ft. centers; side cut of Jack; side cut of Hip or Valley Rafter. Side cut of sheathing in Valley or Hip Body is 24x2 in. Tongue, 16x1 1/2 in. Spaced 8ths, 10ths, 12ths, 16ths, 32ds. Has Essex Board Measure, Octagon Scale, Brace Measure and Improved Rafter Scale. Weight, 2 1/2 lbs. Complete, with water-proof case.

**85B1898**—Royal Copper Finish. White enamel markings. (\$2.75 retail value.) Each **\$1.95**

**85B1910**—Rosewood brass faced handle. Steel blade. Wt., 4 to 8 oz.

Size, in. 4 1/2 6 7 1/2 9

Each **.14c 18c 19c 25c**

**COMBINATION BEVEL AND GAUGE** **40c**

**85B1932**—Has two adjustable markers in end of handle, making a perfect gauge for hanging doors, butts, 8 in. blade. Weight, 6 oz. 75c retail value. Each

**FOX TRY AND MITRE SQUARE** **60c**

**85B1920**—Made of steel, nickel-plated. Accurate. Size, 8 oz. Wt., 8 oz. Each

**LATEST IMPROVED RAFTER SQUARES**

New patented table. Everything worked out, no figuring, gives lengths of Common Rafter; Hip Valley, Jack and Cripple Rafter; also all top, bottom and side cuts. Has a 1 1/2-inch tongue, to conform to the substitution of 3x1 1/2 scantling for the 2x4. Still more attractive as a Framing Square in having a new patented table for Hip Valley Jacks and Cripple Rafter, in addition to a well known patented table for common rafters. Has a new table of cuts for the common polygons, and the standard brace measure. Complete directions. Weight, 2 1/2 lbs. Body, 24x2. Tongue, 16x1 1/2 in.

**85B1890**—No. 503 Polished Steel. Spaced 1/4, 1/2, 3/4 in. Each **.75c**

**85B1892**—No. 500N Nickel Plated. Spaced 1/4, 1/2, 3/4 in. Each **\$1.00**

**85B1894**—No. 500CR Royal Copper Finish. Spaced 1/4, 1/2, 3/4 in. Each **\$1.65**

**STANLEY RAFTER SQUARE**

**85B1896**—No. R1003 Blue Finish. Has Rafter, Brace, Octagon, Essex Board and 100ths measure. Marked 1/4, 1/2, 3/4, 1 in. Body, 24x2. Tongue, 16x1 1/2. Wt., 2 lbs. Each **\$1.20**

**FOX TRY SQUARE** **20c**

**85B1912**—Fox Try Square. Made of steel, nickel-plated. Very accurate. Weights, 4 to 11 oz.

Size, in. 4 1/2 6 8 10

Each **.20c 23c 27c 35c**

**SLIDING T BEVELS**

**85B1926**—Tempered steel blade. With rosewood handle, brass mounted. Recessed screw.

Size, 6 in. Wt., 3 oz. Each **.16c**

Size, 8 in. Wt., 5 oz. Each **.20c**

Size, 10 in. Wt., 6 oz. Each **.22c**

Size, 12 in. Wt., 8 oz. Each **.25c**

**PERFECTED KEY TO STEEL SQUARE**

**Saves Time and Money**

**85B1902**—This instrument is giving wonderful satisfaction wherever sold, because of its thoroughness and simplicity. It enables anyone to perform any work with the square and even experienced carpenters find it very convenient. Consists of a 3-inch Safety Computing Dial and Book of Clear Instructions, contained in a handsome Leather Pocket Case. Wt., 2 oz. \$1.50 retail value. Each **.95c**

**STEEL MITRE SQUARE** **25c**

**85B1914**—Fox's Steel Try and Mitre Square, nickel-plated. Very accurate. Weight, 5 oz. to 8 oz.

Size, in. 4 1/2 6 8 10

Each **.25c 30c 35c**

**IMPROVED T BEVEL**

**85B1930**—Nickel-plated iron handle. Steel blade, secured by thumb screw at end of handle. Best grade. Wt., 7 to 13 oz. Size, in. 6 8 10

Each **.36c .45c .50c**

**STEEL T BEVEL** **22c**

**85B1928**—Nickel-plated steel. Weights, 5 to 9 oz. Size, in. 6 8 10 12

Each **.22c 23c 26c 30c**

**PATENT STAIR GAUGE**

For cutting in rafters, braces, stairs, etc. Adjustable to any pitch or angle with a steel square. L shaped steel, 3/4x1 1/2 in. thick, nickel-plated. (Square not included.) Wts., 14 to 20 oz. each.

**85B1905**—Size, 18 in. (not graduated). Each **.90c**

**85B1906**—Size, 28 in. (not graduated). Each **\$1.30**

**85B1907**—Size, 18 in. Graduated 4ths, 12ths and 24ths. Each **\$1.32**

**85B1908**—Size, 28 in. Graduated 20 inches, in 4ths, 12ths, 24ths. Each **\$2.00**

**Try and Mitre Square** **22c**

**85B1916**—Rosewood handle, brass trimmings. Graduated steel blade. Wts., 4 to 8 oz.

Size, in. 4 1/2 6 7 1/2 9

Each **.22c 23c 28c 35c**

**Try and Mitre Square** **10c**

**85B1918**—Made of bright steel. Accurately graduated. Wt., 5 oz. Size, 7 1/2 in. Each **.10c**

Strictly high grade, well finished and accurate. We save you about one-half the usual retail price! The "face" of a square is the side upon which the brand is stamped, the larger arm is the "body" and the shorter arm is the "tongue."

**85B1870**—Steel Square, No. 7. Polished. Size of body, 24x2 in.; size of tongue, 16x1 1/2 in. Spaced face, 1/4, 1/2 in.; back 1/4, 1 in. Essex Board Measure. Weight, 1 1/2 lbs. Each **.42c**

**85B1871**—Steel Square, No. 3. Polished. Size of body, 24x2 in.; size of tongue, 16x1 1/2 in. Spaced face, 1/4, 1/2 in.; back 1/4, 1 in. Brace Measure and Essex's Board Measure. Weight, 2 1/2 lbs. Each **.48c**

**85B1872**—Steel Square, No. 3. Nickel-plated. Same description as above. Wt., 2 1/2 lbs. Each **.70c**

**85B1873**—Steel Square, No. 3. Polished. Size of body, 24x2 in.; size of tongue, 18x1 1/2. Same as 83B1871, except has 18 in. tongue. Weight, 2 1/2 lbs. Each **.48c**

**85B1874**—Steel Square, No. 3B. Blued. A rich blue color, with enameled graduations, otherwise the same description as No. 3, with 16x1 1/2 in. tongue. Weight, 2 1/2 lbs. Each **.78c**

**85B1875**—Steel Square, No. 100. Polished. Size of body, 24x2 in.; size of tongue, 16x1 1/2 in. Spaced face, 1/4, 1/2 in.; back 1/2, 100's, 1/2, 1/2, 1/2 in. Brace Measure, 8 square and Essex's Board Measure. Weight, 2 1/2 lbs. Each **.65c**

**85B1878**—Steel Square, No. 100. Nickel-plated. Same description as 85B1875. Weight, 2 1/2 lbs. Each **.85c**

## SMALL STEEL SQUARES

**85B1879**—Steel Square, No. 100 C. Royal Copper Finish. Anti-rusting, with white enameled figures and graduations, otherwise the same description as No. 100. Weight, 2 1/2 lbs. Each **\$1.15**

**85B1882**—Steel Square. Polished. A new and convenient size. Body, 18x1 1/2 in. Size of tongue, 12x1 in. Spaced 1/4, 1/2, 3/4 in. Weight, 1 1/2 lbs. Each **.45c**

**85B1883**—Steel Square. Blued. A rich blue color with enameled graduation. Otherwise the same as above. Wt., 1 1/2 lbs. Each **.70c**

**85B1884**—Machinists' Steel Square, No. 20. Nickel plated. Size of body, 6x1 in.; size of tongue, 4x1/2 in. Spaced, 1/4, 1/2, 3/4 in. A convenient little square for the cabinet maker, etc. Weight, 4 oz. Each **.45c**

**85B1885**—Steel Square, No. 12. Nickel-plated. Size of body, 12x1 1/2 in.; size of tongue, 8x1 in. Spaced face, 1/4, 1/2 in.; back, 1/4, 1/2 in. Weight, 1/2 lbs. Each **.65c**

## IRON SQUARE

**85B1888**—Iron Squares; size of body, 24x2 in.; size of tongue, 12x1 1/2 in.; marked in 8ths on both sides. Weight, 1 1/2 lbs. Each **.25c**

## RULES FOR ALL PURPOSES AT WHOLESALE PRICES

**TWO FT. BOXWOOD RULES**

**85B1800**—Boxwood Rule, 2 ft., 4-fold, 1 in. wide, round joints, middle hinge plates, marked in 8ths and 16ths. Weight, 2 oz. Each **.8c**

**85B1801**—Boxwood Rule, 2 ft., 4-fold, 1 in. wide, square joint, edge plates marked 8ths, 10ths, 12ths, 16ths, in. drafting scale. Weight, 2 oz. Each **.16c**

**85B1802**—Boxwood Rule, 2 ft., 4-fold, 1 in. wide, arch joints, middle hinge plates, marked 8ths, 10ths, 12ths, 16ths, in. drafting scale. Weight, 2 oz. Each **.15c**

**BROAD BOXWOOD RULE**

**85B1808**—Broad Boxwood Rule, 2 ft., 4-fold. Arch joints, spaced in 8ths, 10ths and 16ths in. drafting scales. Width, 1 1/2 in. double brass bound. Each **.45c**

**85B1810**—Broad Rule. Width, 1 1/2 in. length, 2 ft., 4-fold, square joint, middle hinge plates, marked 8ths and 16ths with drafting scale. Weight, 2 oz. **.17c**

**85B1811**—Same style as above, except that it has brass edge hinge plates. Not full brass bound. Each **.20c**

**ARCHITECTS' RULE, 4-FOLD**

**85B1814**—Has arch joints; 8ths, 10ths, 12ths and 16ths inches, with inside beveled edges and architects' drafting scale. Width, 1 in. Length, 2 ft. Weight, 2 oz. Each **.30c**

**COMBINATION CALIPER RULE**

**Solid German Silver**

Comprises a caliper rule, protractor, triangle, try square and hook rule. A finely finished rule.

Accurately graduated in 16ths and 32nds. Protractor is divided to five degrees and the vernier reads to one-half degrees. Wt., 2 and 4 oz. (In leather case.)

**85B1830**—Length, 6 in. Each **\$1.10**

**85B1831**—Length, 12 in. Each **1.80**

**CALIPER RULES**

**85B1818**—Boxwood Caliper Rule. Square joint, 2-fold, spaced in 8ths, 10ths, 12ths and 16ths. Length, 6 in. Width, 3/4 in. Weight, 1 oz. Each **.18c**

**85B1819**—Solid Ivory Caliper Rule. German silver trimmed, 2-fold. Length, 6 in. Width, 3/4 in., spaced in 8ths and 16ths of an inch. Weight, 1 oz. **.95c**

**902** MONTGOMERY WARD & CO. CHICAGO

**DOUBLE BRASS-BOUND BOXWOOD RULES**

**85B1804**—Boxwood Rules. Length, 2 ft., 4-fold, double brass bound. Width, 1 in. Weight, 3 oz. Each **.32c**

**85B1805**—Narrow Boxwood Rule. Width, 3/4 in. Length, 2 ft., 4-fold, square joint, brass bound, marked 8ths, 10ths, 12ths, 16ths of in. Weight, 3 oz. Each **.32c**

**ZIGZAG FLEXIBLE FOLDING RULE**

**85B1840**—Flexible hardwood, bright yellow enameled finish with distinct black markings, 6 in. folds. Steel riveted spring joints and metal tips. Spaced in 16ths. Weight, 8 to 6 oz. Lgth., 4 ft. 6ft. 8ft. Each **.15c 24c 32c**

**STANLEY EXTENSION RULES**

**85B1845**—Hard maple, 1 in. wide. Spaced in 8ths. Brass trimmed. When extended to required length, the sections may be secured by the set screw. Weight, 10 oz. to 20 oz.

Size, ft. . . 2 to 4 3 to 6 4 to 8 5 to 10

Each **.48c .55c .63c .78c**

**NEARSITE RULES**

**85B1812**—Has extra large figures, easily read where the light is dim. Boxwood, width, 1 1/2 in., 2 ft., square joint, brass edge plates on hinge, marked in 8ths and 16ths. Weight, 3 oz. **.42c**

**Three-Foot Boxwood Rule, 4-Fold**

**85B1816**—Boxwood Rule. Width, 1 in. Length, 3 ft., 4-fold, spaced 16ths of inch on one side and yard stick on the other side. Weight, 2 oz. **.23c**

**COMBINATION RULE**

**85B1828**—Boxwood full brass bound, and combines a carpenter's rule, spirit level, square, plumb, bevel inclinometer, brace scale, draughting square, protractor, right angle triangle. With a straight edge it can be used as a parallel ruler. Length, 1 foot. When folded, length, 6 in.; width, 1 1/2 in.; thickness, 3/4 in. Used extensively by miners as a slope level, and a valuable tool for the draughtsman, carpenter, engineer, etc. Weight, 6 oz. \$2.00 retail value. Each **\$1.65**

**Caliper Rules** **28c**

**85B1822**—Boxwood Caliper Rule. Length, 1 foot, arch joints, 4-fold, spaced in 8ths, 10ths, 12ths and 16ths. Width, 3/4 in. Weight, 1 oz. **.28c**

**85B1823**—Solid Ivory Caliper Rule. Length, 1 ft. German silver bound, 4-fold, full bound, spaced in 8ths and 16ths. Width, 3/4 in. Weight, 2 oz. **\$2.75**

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**ONE-FOOT RULES**

**85B1825**—Boxwood 1-ft. Rule, 4-fold, has square joints and is marked in 8ths and 16ths. Width, 3/4 in. Wt., 1 oz. Each **.12c**

**ONE-FOOT RULE**

**85B1827**—Boxwood 1-ft. Rule, arch joints, brass bound, marked in 8ths and 16ths. Width, 3/4 in. Wt., 1 oz. Each **.25c**

**FLEXIBLE STEEL RULE**

**85B1834**—Thin steel 1-ft. rule, 1/4 in. wide. Three folds. Graduated edge in 16ths. Weight, 1 oz. Each (in leather case) **.22c**

**LOG AND BOARD RULES**

Made of the best second growth hickory and shaped by hand so they will retain their flexibility after use. The figures are burned in the wood. Weights range from 13 oz. to 16 oz.

**85B1848**—Hickory Log Rule, square head; Scriber's scale figured, 48 in., with 6 in. handle. Each **\$1.10**

**85B1849**—Same with Doyle scale. Each **\$1.12**

**85B1850**—Hickory Log Rule, square head; Scriber's scale figured, 36 in., with 6 in. handle. Each **.93c**

**85B1851**—Same with Doyle scale. Each **.95c**

**HICKORY BOARD RULES**

**85B1852**—Board Rule, 3 tier, 3 feet, extra heavy brazed head. It is the rule for regular yard work and the one most commonly used. Weight, 10 oz. Each **\$1.00**

**BLACKSMITHS' SPRING BRASS RULE** **35c**

**85B1836**—Length, 2 ft.; width, 3/4 in. Made with a stiff spring joint which holds the rule rigid when open. Graduated 8ths on one side and 16ths on the other side. Made of Spring Brass which will not rust nor break. A favorite with blacksmiths everywhere. Useful also for many other purposes requiring a flexible rust-proof rule. Weight, 4 oz. Each **.35c**

**85B1833**—Length, 2 ft.; width, 3/4 in. Made with a stiff spring joint which holds the rule rigid when open. Graduated 8ths on one side and 16ths on the other side. Made of Spring Brass which will not rust nor break. A favorite with blacksmiths everywhere. Useful also for many other purposes requiring a flexible rust-proof rule. Weight, 4 oz. Each **.35c**

**902** MONTGOMERY WARD & CO. CHICAGO

## HOLLOW HANDLE TOOLS

**HOLLOW HANDLE TOOL SET** **30c**

**Polished Cocobolo**

**85B1330**—A very useful tool. Hollow polished cocobolo handle. Holds 10 good sized tools as illustrated, all solid steel, hand-forged. Length of handle, 5 1/2 in. Weight, 7 oz. Excellent value. Each **.30c**

**HOLLOW HANDLE TOOL SET** **68c**

**85B1332**—Extra quality. Extra large hollow cocobolo handle. With a superior thumb nut and grip. Nickel-plated. With 9 tools as shown. Tools are made from high grade steel. Length of handle, 7 in. Wt., 12 oz. Each **.68c**

**LAKESIDE EXTRA QUALITY HOLLOW HANDLE TOOL SET** **95c**

**85B1334**—O. U. Lakeside. Extra large handle. Made of polished cocobolo. Ten tools. Best quality tempered steel. The chuck is nickel-plated and constructed with special regard to strength and durability. Length of handle, 7 1/2 in. Weight, 1 lb. Each **.95c**

**COMBINATION HANDLE TOOL SET** **72c**

**85B1338**—Combination Tool Handle, pin vise, and end cap wrench. Made entirely of steel, nickel-plated. Handle is hollow, with a screw cap. Contains 10 forged steel tools as illustrated. Weight, 12 oz. Each **.72c**

**HOLLOW HANDLE TOOL SET** **35c**

**85B1336**—Henry's Patent Tool Handle. With a solid Cocobolo handle and nickel-plated metal cap. Contains 12 tools as shown, made of extra tool steel. Length, 4 1/2 in. Weight, 6 oz. Each **.35c**

**CRISPIN'S HOLLOW HANDLE AWL** **28c**

**85B1340**—Ebonized Hardwood hollow handle, length, 5 in. Contains 50 feet of best waxed linen shoe thread; 3 awls and 5 needles. For quick mending in the house, stable, field or camp. A well made useful tool. Weight, 3 oz. Each **.28c**

**902** MONTGOMERY WARD & CO. CHICAGO



# SURVEYING, ENGINEERING AND FARM DRAINAGE LEVELS

## DRAINAGE OR FARM LEVEL WITH TELESCOPE

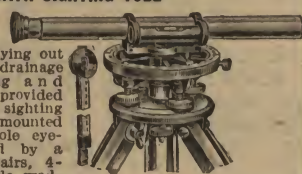


\$22<sup>10</sup>

**85B1954**—An instrument constructed for the use of farmers, ditchers, landscape gardeners, etc. Has a fine telescope, 12 inches long, magnifying power of 16 diameters; graduated level vial, same being sensitive enough to tell a variation of  $\frac{1}{4}$  inch in 100 feet distance after being leveled up. Instrument revolves on a spindle and is always kept in a level plane. Constructed of bronze metal and packed in neat hardwood box. Shipping wt., 22 lbs.

Each (complete with tripod).....**\$22.10**  
**85B1955**—Drainage Level, like above, but with horizontal circle reading to degrees for turning angles. Shipping wt., 22 lbs.  
Price, each (complete with tripod).....**\$25.50**

## DRAINAGE OR FARM LEVEL WITH SIGHTING TUBE



**85B1951**—For laying out farm lands, drainage ditches, roadmaking and similar uses. It is provided with 10 $\frac{1}{2}$ -inch sighting tube, level vial mounted in the tube, pinhole eyepiece, front closed by a glass, with cross-hairs, 4-inch horizontal circle graduated to degrees. Clear directions, free from technical terms, are furnished with each level. Complete in neat wooden case, with lock, hooks and metal handle, plumb bob key for center, wood leveling rod, strong hardwood tripod. Shipping weight, about 10 lbs.

Price.....**\$14.95**

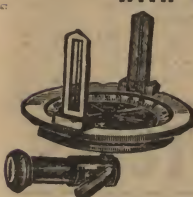
## SURVEYORS' HAND LEVEL



**85B1960**—Convenient in making preliminary surveys, building ditches or roads, and is invaluable for this work in running lines or estimating elevations or depressions. Accurately made, with heavy bronze metal case. Length, 5 in. In neat leather case. Weight, 9 oz.

Price (with leather case).....**\$3.25**

## FOLDING SIGHT COMPASSES WITH TWO LEVELS



Well made and finely finished. Have folding hook sights, jeweled bar needle with sliding stop and full raised circle divisions; two levels for adjustment. Can be used on either tripod or Jacob Staff as desired. Each Compass in case.

**85B1984**—With 2 $\frac{1}{2}$ -inch needle. Weight, 1 $\frac{1}{2}$  lbs. Each.....**\$6.30**  
**85B1985**—With 3 $\frac{1}{2}$ -inch needle. Weight, 2 $\frac{1}{2}$  lbs. Each.....**\$7.90**

### Jacob Staff for Above

**85B1986**—Single stick. Hardwood with metal shoe for use with either of above compasses. Length, 4 $\frac{1}{2}$  ft. Weight, about 2 lbs. Price.....**\$9.00**

### Tripod for Above

**85B1987**—Well finished hardwood, with Jacob Staff top, for use with either of above compasses. Weight, about 5 lbs. Price.....**\$2.75**

## SURVEYORS' MEASURING CHAINS

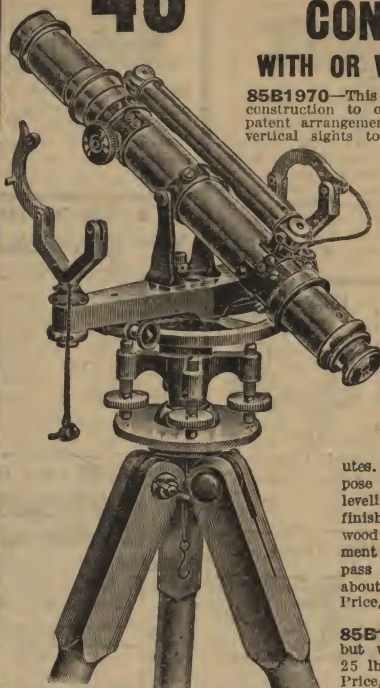
### BEST AMERICAN MAKE



Highest Grade American Iron Measuring Chain. With two round rings between links. With brass tallies and brass swivel handles. Made of extra quality, rust-resisting iron. Bright finish. Joints are very closely butted, but not brazed.

**85B2000**—Length, 33 ft. Weight, 4 $\frac{1}{2}$  lbs. Each.....**\$1.85**  
**85B2001**—Length, 50 ft. Weight, 5 $\frac{1}{2}$  lbs. Each.....**\$2.10**  
**85B2002**—Length, 66 ft. Weight, 7 $\frac{1}{2}$  lbs. Each.....**\$2.80**  
**85B2003**—Length, 100 ft. Weight, 10 $\frac{1}{2}$  lbs. Each.....**\$3.10**

\$48<sup>10</sup>



## RECONNOISSANCE TRANSIT FOR RAPID AND PRELIMINARY SURVEYING

**85B1975**—This instrument is designed for light and moderately accurate work and recommended for rapid and preliminary surveying. Mining and all such work, where a light and portable instrument is desired. Erecting Telescope, 9 in.; magnifying power 28 diameter; lenses of best domestic make; stadia wires; graduated level vial to telescope; objective 1 $\frac{1}{4}$  in. diameter, with rack and pinion movement; dust guard, sun shade and dust cap; spiral motion arrangement for focusing cross and stadia hairs; clamp and tangent screws to telescope axis; telescope reversible from both ends, vertical circle, 3 $\frac{1}{2}$  in., graduated to degrees and numbered to quadrants with vernier reading to five minutes. Horizontal Limb, 5 $\frac{1}{2}$  in., graduated to  $\frac{1}{2}$  degree, with two rows of figures reading in opposite directions from 0 to 360 degrees. One double vernier reading to single minutes. Vernier opening 30 degrees to the line of sight; clamp and tangent screws to horizontal limb; compass needle 3 $\frac{1}{2}$  in. with variation plate, two plate levels; shifting center. Weight of instrument, 9 $\frac{1}{2}$  lbs., with tripod, 16 $\frac{1}{2}$  lbs. Instrument complete in mahogany finished box; plumb bob, reading glass, adjusting pins, etc. Extension tripod. Shipping weight, about 30 lbs. Price, each (complete with tripod).....**\$98.00**

## ARCHITECTS' CONVERTIBLE LEVEL WITH OR WITHOUT TANGENT SCREW

**85B1970**—This instrument has tangent screw. Is similar in construction to our No. 85B1966, but with the addition of a patent arrangement by means of which it can be used for taking vertical sights to the extent of 45 degrees in either direction.

Will also take horizontal angles between two points not in the same plane. Has various uses, such as leveling walls, laying out angles, giving lines and levels for buildings, grading tracks, streets, sewers, drains, etc. Architects and builders will find this additional device well worth the extra cost. Our instrument is constructed with an adjustable horizontal bearing which makes the instrument rigid and accurate, and also prevents the telescope from over-balance. This is an improvement over other instruments of this kind. It has a 12-inch telescope with a graduated level vial mounted on it, magnifying power 19 diameters; objective 1 $\frac{1}{4}$  in. aperture, with rack and pinion movement, dust guard, sun shade, and dust cap. Eye-piece adjustable for focusing cross-hairs. Graduated level vial, horizontal circle, 4 $\frac{1}{2}$  in., divided to degrees reading by vernier, attached to the spindle, to 5 minutes. The horizontal circle is reversible for the purpose of setting it at zero at any given joint. Four leveling screws. Instrument complete in mahogany finished box with plumb bob, adjustable pins, hardwood tripod, and metal trivet (for setting the instrument on a surface of wood or stone). There is no compass needle on this instrument. Shipping weight, about 25 lbs. Exceptional value.

Price, each (complete with tripod).....**\$52.50**  
**85B1971**—Architects' Convertible Level, like above, but without tangent screw. Shipping weight, about 25 lbs. Price, each (complete with tripod).....**\$48.10**

## ARCHITECTS' LEVEL WITH OR WITHOUT TANGENT SCREW



\$38<sup>25</sup>

**85B1965**—This instrument is especially designed for Architects and Contractors for leveling walls, laying out angles, giving lines and levels for buildings, grading streets, sewers, drains, etc. It has 12-inch telescope, magnifying power, 19 diameters; objective, 1 $\frac{1}{4}$  inch aperture, with rack and pinion movement, dust guard, sun shade and dust cap. Eye-piece adjustable for focusing cross-hairs. Graduated level vial, horizontal circle, 4 $\frac{1}{2}$  in., divided to degrees reading by vernier (which is attached to the spindle) to five minutes. The horizontal circle is reversible for the purpose of setting the same at zero at any given point. Four leveling screws. Instrument complete in mahogany finished box with plumb bob, adjustable pins, metal trivet (for setting the instrument on a surface of wood or stone), hardwood tripod. Shipping weight, 18 lbs.

Price (complete with tripod).....**\$38.25**  
**85B1966**—Architects' Level, like above, but with tangent screw. Shipping wt., 18 lbs. Each (with tripod).....**\$42.80**

## FARMERS' OR CONTRACTORS' LEVEL WITH SIGHTING TUBE



\$9<sup>63</sup>

**85B1958**—Starrett's No. 101, Leveling Instrument. For architects, contractors, carpenters, millwrights, masons, surveyors, etc. Its lightness, simple construction, and extremely moderate price, combined with the wide range of work to which it can be applied, make it very desirable.

The tripod is of iron, and has improved extension legs, adjustable from 2 $\frac{1}{2}$  to 4 $\frac{1}{2}$  ft. The sight tube is brass, twelve inches long, and in one end is a small eye aperture, while the other end has the usual cross wires. Handsome nickel and japan finish. We have sold a great many of these instruments to farmers, for use on their ditches, sewers, etc. This instrument appeals to farmers, particularly, because of its strength and simplicity. It is adapted to all their needs without a lens, and is sold at a very moderate price. The distance through which a sight may be taken with this instrument is considerable, depending, of course, on the strength of the eye applied to it. Shipping weight, 14 lbs. Price (complete with tripod and directions for use, packed in neatly finished wood case).....**\$9.63**

## FOLDING SIGHT COMPASSES

### FOLDING SIGHT COMPASS



#### AN EXCELLENT POCKET COMPASS

Well made and durable. Intended for retracing lines that have once been surveyed, and may also be used as a pocket compass. Have full raised circle divisions and jeweled bar needle and sliding stop. Cases are nickel with hinged cover. In two sizes.

**85B1980**—Diameter, 2 in. Weight, 6 oz. Each.....**\$3.25**  
**85B1981**—Diameter, 2 $\frac{1}{2}$  in. Weight, 10 oz. Each.....**\$3.70**

### VERNIER COMPASS



#### WITH FOLDING SIGHTS

**85B1991**—For approximate work. Folding sights with hairline and slit value. Size of needle, 3 $\frac{1}{2}$  in. Diameter of case, 5 in. On the inside ring, a second scale is given, for setting off either East or West magnetic variation. Vernier reading to 5 minutes. Fitted with bar needle, jeweled center and stop. Two sensitive spirit levels, and a ball and socket mounting for a Jacob Staff. Complete in case. Weight, 1 $\frac{1}{2}$  lbs. Each.....**\$12.50**

## SURVEYORS' VERNIER COMPASS

**85B1992**—Constructed of bronze metal, graduated to  $\frac{1}{4}$  degrees and numbered in quadrants. Has a 5-in. needle. Diameter of plate 15 in. Two spirit levels. Detachable sights. The N sight is graduated on the right and left sides. Angles of elevations and depressions of 25 degrees each way can be taken with considerable accuracy. The sight has two eyepieces for reading the graduations on the N sight. With an outkeeper (for keeping tally in chaining) variation plate inside the compass box, reading to five minutes. Thumb and clamp screw for setting the magnetic variation of the needle. The E and W letters are reversed from their positions on the map, because the needle is a fixed point, while the compass box is revolved in directing the sights to the object observed. Complete in mahogany finished box with tripod. Shipping wt., about 24 lbs. Price (with tripod).....**\$37.50**

**85B1993**—With Jacob staff mounting. Shipping wt., 19 $\frac{1}{2}$  lbs. Each.....**\$33.90**

\$33<sup>90</sup>



## SURVEYORS' MEASURING CHAINS

### BEST AMERICAN MAKE



Highest Grade American Iron Measuring Chain. With two round rings between links. With brass tallies and brass swivel handles. Made of extra quality, rust-resisting iron. Bright finish. Joints are very closely butted, but not brazed.

**85B2000**—Length, 33 ft. Weight, 4 $\frac{1}{2}$  lbs. Each.....**\$1.85**  
**85B2001**—Length, 50 ft. Weight, 5 $\frac{1}{2}$  lbs. Each.....**\$2.10**  
**85B2002**—Length, 66 ft. Weight, 7 $\frac{1}{2}$  lbs. Each.....**\$2.80**  
**85B2003**—Length, 100 ft. Weight, 10 $\frac{1}{2}$  lbs. Each.....**\$3.10**

## SURVEYORS' ARROWS

### TIMBER SCRIBE

**85B2006**—Best Steel Arrows, or marking pins. Length, 14 in. In sets of 11 arrows. Wt., per set, 11 oz. Per set.....**65c**

### TIMBER SCRIBE

**85B2008**—Large, extra heavy hardwood handle. With steel scribers and steel gouging blade. Length, 7 in. Weight, 5 oz. Each.....**95c**

## SURVEYORS' LEVELING RODS

**85B2012**—Light Philadelphia Rod. With vernier clamp and target. Length, 6 $\frac{1}{2}$  ft., sliding out to 12 ft. Subdivided 100 parts to the foot. Weight, 6 $\frac{1}{2}$  lbs. Each.....**\$8.40**  
**85B2013**—Divided in inches and  $\frac{1}{4}$  in. Each.....**\$4.85**  
**85B2014**—Divided in 10ths and 100ths ft. Each.....**\$4.85**

## SURVEYORS' RANGING POLES WITH STEEL SHOE

**85B2018**—Tapered Octagon Ranging Poles. Made of best seasoned white pine, with metal shoe. Painted red and white alternately every foot, as shown in illustration. A strong and well made rod. Weight, each 1 $\frac{1}{2}$  to 3 $\frac{1}{2}$  lbs. Length, 6 ft. Each.....**\$1.30**  
Length, 8 ft. Each.....**1.50**  
Length, 10 ft. Each.....**1.85**

## LEVELING ROD RIBBONS, \$1.00

**85B2020**—Can be used as a Pocket Leveling Rod or to replace the Philadelphia Rod. Clearly printed on a heavy, durable material. Width 4 in. Graduated in feet, 10ths, and 100ths feet. Numbers run from the top down. Wt., 2 oz. Length, 12 $\frac{1}{2}$  ft. Each.....**\$1.00**  
Length, 10 $\frac{1}{2}$  ft. Each.....**1.30**  
Length, 20 $\frac{1}{2}$  ft. Each.....**1.50**

## LINEN AND STEEL MEASURING AND SURVEYORS' TAPES

### METALLIC LINEN TAPES LEATHER COVERED CASE



Strong steel case, covered with hard leather, hand sewed. With flush handle, and nickel trimming. Tape is  $\frac{1}{4}$  in. wide. Best woven linen with bronze wires interwoven to prevent stretching and shrinking.

**85B2035**—Marked on one side in feet and twelfths, and on the other side in links.

Size Feet	Wt., lbs.	Each
50	$\frac{1}{4}$	<b>\$2.10</b>
75	$\frac{1}{2}$	<b>2.60</b>
100	$\frac{1}{2}$	<b>3.25</b>

**85B2036**—Marked on one side in feet and tenths, and on the other side in links.

Size Feet	Wt., lbs.	Each
50	$\frac{1}{4}$	<b>\$2.10</b>
75	$\frac{1}{2}$	<b>2.60</b>
100	$\frac{1}{2}$	<b>3.25</b>

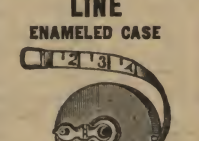
### SURVEYORS' STEEL TAPES



**85B2038**—Steel Tapes,  $\frac{1}{4}$  in. wide in leather case. Nickel-plated trimmings. Designed for contractors, builders, masons, etc. Accurately marked in feet, inches, and eighths of inches.

Size Feet	Wt., oz.	Each
25	7	<b>\$2.25</b>
50	12	<b>2.85</b>
75	16	<b>3.75</b>
100	20	<b>4.85</b>

### STANDARD TAPE LINE ENAMELED CASE



**85B2042**—Neat, strong brass bound enameled case. Folding handle. Oiled linen tape,  $\frac{1}{4}$  in. wide. A good, inexpensive tape for ordinary use. Marked in feet and inches.

Size Feet	Weight Ounces	Each
50	6	<b>25c</b>
75	8	<b>40c</b>
100	10	<b>48c</b>

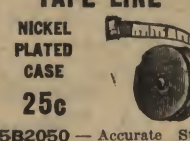
### HEAVY LINEN TAPE LINE STITCHED LEATHER CASE



**85B2044**—Stitched leather case. Heavy linen corded tape,  $\frac{1}{4}$  in. wide. Very serviceable. An excellent tape for ordinary use. Extensively used by carpenters, bricklayers, etc. Marked in feet and inches.

Size Feet	Wt., Oz.	Each
50	8	<b>\$1.05</b>
75	9	<b>1.20</b>
100	11	<b>1.35</b>

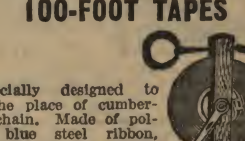
### STEEL POCKET TAPE LINE NICKEL PLATED CASE



**85B2050**—Accurate Steel Pocket Tapes, with spring and stop. Automatic release by pressing button. Very attractive, flat metal case, nickel plated. Divided into inches and 16ths. A very convenient and accurate pocket or desk tape. The 3-ft. size is very popular with dressmakers. Weight, 2 to 3 oz.

Feet	Width	Each
3	$\frac{3}{4}$ in.	<b>\$0.25</b>
6	$\frac{3}{4}$ in.	<b>.70</b>
10	$\frac{3}{4}$ in.	<b>1.40</b>
12	$\frac{3}{4}$ in.	<b>1.80</b>

### SURVEYORS' STEEL 100-FOOT TAPES



Especially designed to take the place of cumbersome chain. Made of polished blue steel ribbon, correctly tempered. Width,  $\frac{1}{4}$  inch. Thickness, .015 in. Every foot is numbered with plain figures on a raised extra thickness of steel, thus avoiding any possibility of weakening the chain by the usual deep etching of figures or the use of rivets in the tape. Length, 100 ft. Graduated each foot, first foot in  $\frac{1}{4}$  in.

**85B2030**—With hardwood reel, as shown. Wt., 2 lbs. Each.....**\$3.85**  
**85B2031**—Without reel. Wt., 1 $\frac{1}{4}$  lbs. Each.....**\$2.80**



# ACCURATE LEVELS AND PLUMB BOBS—FINE VALUES

## ADJUSTABLE PLUMBS AND LEVELS

## SIGHT LEVELING STAND, \$2.60

## MACHINISTS' IRON LEVELS



**85B2064**—A high grade, first class level, made of polished cherry. Brass arch top plate, two side views, both ends are brass tipped. Adjustable. Note our Bargain Prices.

Length, inches	24	26	28	30
Weight, pounds	2 1/2	3 1/2	4 1/2	5 1/2
Each (give size)	85c	86c	88c	90c



**85B2127**—Stanley's No. 39. For distance leveling. Cast iron frame. Nickel plated support, with leveling screws. With 12 in. adjustable iron level, having two plumbs and a level, proved glasses. With level sights. Weight, 3 1/2 lbs. \$3.75 retail value. Each.....\$2.60

**85B2128**—Stand only. Wt., about 1 1/2 lbs. Each.....85c



**85B2090**—Davis Patent adjustable, with double plumb. Carefully and accurately made and finished in black enamel. Usual retail value, \$2.25 to \$3.00 each. Strictly high grade. (Give size.)

Length, 12 in. Weight, 1 1/2 lbs. Each.....	\$1.65
Length, 18 in. Weight, 3 lbs. Each.....	1.90
Length, 24 in. Weight, 4 lbs. Each.....	2.25

### PLUMB AND LEVEL

**85B2080**—Made of cherry, with brass top plate, two side views. Non-adjustable. Length, 28 in. Weight, 2 1/2 lbs. 75c value. Each.....52c

### MAHOGANY LEVEL

**85B2074**—With brass top plates, low cut side views, brass end plates, and improved adjustable level and plumb. A first class level at a low price. (Give size.)

Length	Weight	Each
12 in.	7 oz.	60c
18 in.	1 1/2 oz.	80c

### THREE-PIECE LEVELS

**85B2062**—Made of three pieces of seasoned cherry, glued together and will not warp. Brass arch top plate, two side views. Adjustable. Both ends are brass tipped. Usual retail value, \$1.50. (Give size.)

Length, inches	26	28	30
Weight, pounds	2 1/2	3 1/2	4 1/2
Each (give size)	98c	99c	\$1.00

### MAHOGANY LEVELS

**85B2070**—Genuine Stratton Bros. Built up of five pieces of finely selected mahogany, thoroughly glued and will remain straight and accurate. The corners are all brass bound, the metal being dovetailed into the wood. Fitted with accurate ground glasses, adjustable by means of a movable bar over the glass. Ornamental brass side views, heavy brass top and end plates, full brass bound. (Give size.)

Length	Weight	Each
26 in.	3 1/2 lbs.	\$4.90
28 in.	3 1/2 lbs.	5.00
30 in.	3 1/2 lbs.	5.20

### MAHOGANY LEVELS

**85B2072**—Genuine Stratton Bros. Made of one piece of selected Mexican mahogany. Adjustable. Brass bound corners, the metal being dovetailed into the wood. Heavy brass top and end plates, full brass bound. True and accurate. (Give size.)

Length	Weight	Each
12 in.	1 1/2 lbs.	\$1.25
18 in.	1 1/2 lbs.	1.70
24 in.	2 lbs.	2.00
26 in.	2 1/2 lbs.	2.35
28 in.	2 1/2 lbs.	2.90
30 in.	3 1/2 lbs.	2.95

### STRATTON BROS. LEVELS

**85B2068**—Built up of four pieces of choice rosewood around a core of mahogany. This construction prevents warping. The corners are all brass bound, the metal being dovetailed into the wood. Each level is fitted with extra fine ground glasses (patent fluid) and adjusted with a movable bar over the glass. Ornamental brass side views, heavy brass top, and end plates. Full brass bound. The finest level of its kind made. (Give size.)

Length	Weight	Each
24 in.	3 1/2 lbs.	\$5.50
26 in.	4 lbs.	5.75
28 in.	4 1/2 lbs.	5.85
30 in.	4 1/2 lbs.	6.40

### MASONS' PLUMB AND LEVEL

**85B2080**—Adapted for plumb and line. With arch top plate, two side views, adjustable. Length, 42 in. Weight, 2 1/2 lbs. Usual retail value \$1.25. Each.....85c

### STRATTONS MASONS' LEVEL

**85B2082**—Mahogany finish, with double plumb, brass top plate, low cut side views; adjustable level and plumb, selected glasses. Usual retail value, \$1.75 each. (Give size.)

Length	Weight	Each
36 in.	1 1/2 lbs.	\$1.25
42 in.	1 1/2 lbs.	1.28

### WOOD LEVEL

**85B2124**—For distance leveling. For wood levels. Wt., per pair, 4 oz. Per pair.....55c

### IRON LEVEL

**85B2125**—Improved Level Sights for Iron Levels. Wt., per pair, 4 oz. Per pair.....55c

### BIT AND SQUARE LEVEL

**85B2122**—Made of brass, with an accurate level glass that can be attached to a square or auger bit or rule by the set screw. Length of level, 1 1/2 in. Weight, 2 oz. Each.....20c

### BRASS PLUMB BOBS

**85B2134**—Polished brass. Steel points. Extra quality.

Wt. Oz.	Length In.	Each
6	4 1/2	\$0.50
8	4 1/2	.65
10	5 1/2	.80
12	5 1/2	.92
16	6	1.16
20	6 1/2	1.30

### IRON PLUMB BOBS

**85B2135**—Smooth nickel plated iron. Sharp points. Length, 2 1/2 in. Wt., 4 oz. Each.....10c

### NICKEL PLATED PLUMB BOBS

**85B2136**—Accurately turned from solid steel. Brass top screw. Hardened point. Give size.

Length In.	Wt. Oz.	Each
2 1/2	4 1/2	28c
3 1/2	9 1/2	45c
4	18	55c

### HEXAGON BOB

**85B2142**—Length, 3 1/2 in. Wt., 8 oz. Each.....18c

**85B2143**—Length, 3 1/2 in. Wt., 12 oz. Each.....30c

### BRASS PLUMB BOBS

**85B2145**—Polished brass. Steel points. Length, 2 1/2 in. Wt., 6 oz. Each.....25c

### MERCURY PLUMB BOBS

**85B2150**—Starrett's. Nickel plated steel. Filled with mercury. Very heavy in proportion to size. Points are hardened. Body knurled. Complete with braided silk line. (Give size.)

Length In.	Diam. In.	Wt. Oz.	Each
4	1/2	3 1/2	\$0.81
5	5/8	6	1.23
5 1/2	1	13	1.64
6	1 1/8	16	2.07

### IRON BENCH LEVELS

**85B2102**—Milled faces and ends. Japanned body. (Give size.)

Length	Weight	Each
4 in.	5 oz.	44c
6 in.	7 oz.	52c

### NICKEL PLATED LEVEL

**85B2108**—Adjustable iron level. Base is accurately ground and level is finely nickel plated. (Give size.)

Length, 6 in.	Wt., 11 oz. Each.....	\$1.00
Length, 8 in.	Wt., 20 oz. Each.....	1.20

### SMALL WOOD LEVEL

**85B2112**—Brass lined on top. Length, 5 in. Width, 1/2 in. Weight, 2 oz. Each.....9c

### IRON POCKET LEVELS

**85B2114**—May be fastened to a steel square or straight edge. Brass top plate. Length, 3 in. Wt., 3 oz. Each.....10c

### HEXAGON POCKET LEVELS

**85B2118**—Carefully made and accurate. (Give size.)

Length, about 2 1/2 in.	Wt., 1 oz. Each.....	18c
Length, about 3 1/2 in.	Wt., 1 oz. Each.....	25c

### LEVEL GLASSES

**85B2130**—Made of extra thick glass tubing. Weight, 1 oz. (Give size.)

Length in.....	1 to 1 1/2	2
Each.....	3c	40
Length.....	2 1/2	3
Each.....	5c	60

# BRICK TROWELS, PLASTERING TROWELS AND CEMENT TOOLS

## LAKESIDE PLASTERING TROWELS

**85B2632**—The blade is of the best quality steel, finely finished. The style of mounting and the easy manner in which this trowel fits the hand, shows its superiority. A great favorite with the expert. Weight, 14 to 16 oz. (Give size.)

Length, 10 1/2 in. Weight, 14 oz. Each.....	75c
Length, 11 in. Weight, 15 oz. Each.....	80c
Length, 11 1/2 in. Weight, 16 oz. Each.....	85c
Length, 12 in. Weight, 17 oz. Each.....	90c

## LAKESIDE LEATHER HANDLE TROWEL

### California Pattern

**85B2625**—Finest quality steel, highly polished. Fitted with real leather handles, affording a firm, easy grip. (Give size.)

Length, blade, in.....	10	10 1/2	11
Weight, oz.....	13	14	16
Each.....	95c	98c	\$1.00

## LAKESIDE LEATHER HANDLE TROWEL

### New York Pattern

**85B2624**—Finest quality steel, highly polished. Fitted with real leather handles, affording a firm, easy grip. (Give size.)

Length, blade, in.....	10	10 1/2	11
Weight, oz.....	13	14	16
Each.....	95c	98c	\$1.00

## LAKESIDE STANDARD TROWEL

### Philadelphia Pattern

**85B2620**—With square heel. Made of special steel, highly polished. Fitted with hardwood handles. (Give size.)

Length, blade, in.....	10	10 1/2	11
Weight, oz.....	13	14	16
Each.....	70c	75c	80c

## LAKESIDE STANDARD TROWEL

### London Pattern

**85B2622**—With round heel. Made of special steel, highly polished. Fitted with hardwood handles. (Give size.)

Length, blade, in.....	10	10 1/2	11
Weight, oz.....	13	14	16
Each.....	70c	75c	80c

## SEWALK GROOVERS

**85B2680**—Curved up at both ends. Nickel-plated iron. Size, 5 1/2 x 2 1/2 in. Wt., 1 1/2 lb. Each.....28c

**85B2682**—Curved up at both ends. Nickel plated iron. Makes wide groove. Size, 9 x 3 in. Wt., 1 1/2 lbs. Each.....32c

## SQUARE EDGER

**85B2694**—Nickel-plated iron. For finishing the edge of steps, etc. Makes a square edge. Size, 6 x 2 1/2 in. Cutting edge, 1 1/2 in. Weight, 1 1/2 lbs. Each.....40c

## STANDARD PLASTERING TROWELS



**85B2634**—Made of a good grade of steel, finely finished, and well made.

Length, in.....	11	12
Wt., oz.....	18	20
Each.....	40c	45c

## PLASTERERS' CORK FLOATS



**85B2638**—Solid cork, carefully smoothed. Wt., 4 to 9 oz. (Give size.)

Size, about 12 x 4 x 1 in. Each.....	22c
Size, about 12 x 5 x 1 1/4 in. Each.....	34c
Size, about 12 x 6 x 1 1/4 in. Each.....	38c

## CORNER TROWEL



**85B2640**—Polished cast steel, wood handle. Length, 6 in. Wt., 12 oz. Each.....38c

## ALUMINUM FLOAT



**85B2650**—Smooth aluminum. Wood handle. Size, 12 x 4 x 1/2 in. Wt., 13 oz. Each.....\$1.10

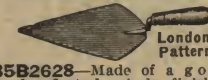
## MASONS' TOOL BAG, \$1.50



**85B2672**—Strong white canvas, leather seams. Bottom has metal studs. Two riveted straps. Strong leather handle. Inside pocket.

Size, 20 in. Weight, 3 1/2 lbs. Each.....	\$1.50
Size, 24 in. Weight, 4 lbs. Each.....	\$1.75

## STANDARD TROWELS



**85B2628**—Made of a good grade of steel, nicely finished. A good tool at our price. Give size.

Length, in.....	10	10 1/2	11
Weight, oz.....	13	14	16
Each.....	40c	42c	45c

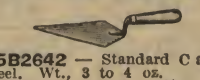
## PHILADELPHIA PATTERN



**85B2629**—Standard Brick Trowels, with square heel as shown. (Give size.)

Length, in.....	10	10 1/2	11
Weight, oz.....	13	14	16
Each.....	40c	42c	45c

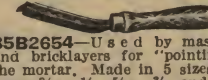
## POINTING TROWELS



**85B2642**—Standard Cast steel. Wt., 3 to 4 oz. Length, in..... 4 1/2 5 Each.....15c 19c 20c

**85B2644**—Extra quality Lakeside brand. Wt., 3 to 4 ounces. Length, in..... 4 1/2 5 Each.....30c 32c 34c

## TUCK POINTING TOOL



**85B2654**—Used by masons and bricklayers for "pointing" the mortar. Made in 5 sizes of face, 3/8, 1/2, 5/8, 3/4, and 1 in. Wt., 3 to 4 oz. (Give size.) Each.....28c

## BRICK CHISEL



**85B2660**—Forged tool steel. Width, 4 in. Wt., 1 1/2 lbs. Each.....40c

## CHALK LINES

**85B2668**—Twisted cotton lines, about 3/4 in. in hanks of 20-ft. Wt., 3 oz. Per hank.....2c

**85B2667**—In balls of 100 ft. Wt., 1 oz. Per ball.....8c

## BRICK JOINTER

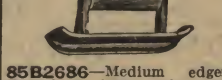


**85B2656**—Polished steel. Round on one end, and square on the other. Very convenient. Length, 7 1/2 in. Wt., 4 oz. Each.....30c

## CARPENTERS' CHALK

**85B2664**—In boxes containing four cakes, white or blue. Wt., 3 oz. Per box.....5c

## SEWALK EDGERS



**85B2686**—Medium edger. Curved at both ends, with curve of 3/4 in. radius. Nickel-plated iron. Size, 6 x 2 1/2 in. Wt., 18 oz. Each.....29c

**85B2687**—Large edger. With curve of 3/4 in. radius. Nickel-plated iron. Size, 6 x 2 1/2 in. Wt., 19 oz. Each.....30c

## STEEL CENTER GROOVER



**85B2690**—Steel center rib, accurately ground. Greatly increases durability and cutting qualities. Nickel-plated. Curved both ends. Length, 6 in. Wt., 1 1/2 lbs. Each.....40c

## RADIUS TOOL

**85B2696**—Used for curves and circles where regular edgers cannot be used. Radius, 3/4 in. Length, 5 1/2 in. Nickel plated steel blade. Wood handle. Wt., 5 oz. Each.....28c

## CEMENT ROUGH-ING ROLLER



**85B2700**—Polished Solid Bronze. Has 13 in. hardwood handle. Size, 3 1/2 x 10 in. With handle. Wt., about 13 lbs. Each.....\$5.60

**85B2702**—Nickel-plated iron. Same style as above. Size, 3 1/2 x 10 in. With handle. Wt., 9 1/2 lbs. Each.....\$2.10

## LINE ROLLER



**85B2704**—Iron Line Roller. Cast iron. Made with 6 grooves to the inch, leaving a bush hammered surface. Size, 3 1/2 x 10 in. Nickel-plated. With 13 in. handle. Wt., 11 lbs. Each.....\$2.15



# QUALITY AND PRICE RECOMMEND THESE PLIERS

## LAKESIDE STAPLE PULLER AND WIRE SPLICER



**Forged Steel, Finely Nickel Plated**  
**85B2230**—An extra heavy, finely finished, high grade tool. Combines, first, a staple puller; second, a double wire cutter; third, a double hammer, with no danger of breaking; fourth, a good wire splicer, for any kind of wire; fifth, a good pair of pinners; sixth, a good wrench for bolts, etc. Weight, 2 lbs. Convenient for hip pocket. Finely nickel plated. Usual retail value, \$1.25. Length, 10 in. Each..... **75c**

### OFFSET COMBINATION PLIERS



**85B2205**—Will do all the work of the best ordinary plier and go into many out-of-the-way places where others will not. Forged steel. Knurled jaws grooved for pipe. Will cut wire. Joint will slip over for gripping large articles. Length, 7 in. Wt., 14 oz. Price, each..... **28c**

### FORGED LINEMEN'S PLIERS



**85B2180**—Klein's pattern. With lap joint, beveled head. A decided favorite with electricians. Drop forged steel, finely finished and carefully tempered. Has a large opening in the back for cutting insulated wire. Length, 8 in.; weight, 14 oz. Usual retail value, \$1.25. Our price, each..... **75c**

### CRONK'S COMBINATION PLIERS



**85B2208**—With Wire Cutter. Carefully tempered steel. (Give size.) Length, 8 in. Wt., 11 oz. Price, each..... **55c**  
Length, 10 in. Wt., 20 oz. Price, each..... **72c**

### STEEL FENCE PLIERS



**85B2232**—Drop forged steel, with two prongs for pulling staples. Combines a hammer, staple puller, wire cutter and wire splicer. A good tool at a low price. 75c value. Length, 10 in. Wt., 1 1/4 lbs. Price each..... **48c**

### HOUSEHOLD COMBINATION PLIERS



A combination side cutting pliers of great merit, forged steel, tempered and tested. Has flat nose, grooved for pipe, and has three wire cutters. Needed in every home. In two sizes.  
**85B2203**—Length, 5 in. Full polished. Wt., 8 oz. Price, each..... **35c**  
**85B2204**—Length, 7 in. Gun metal finish. Wt., 12 oz. Price, each..... **65c**

## LAKESIDE COMBINATION PLIERS Nickel Plated



**85B2200**—Drop-forged steel. Highly nickel plated. For steam and gas fitters, machinists, and also useful in every household. It combines in one a gas plier, wire cutter, wrench and screw driver. Strictly high grade. You will find it to be the handiest tool in your kit. The slip joint permits of a quick adjustment. Note our bargain prices.

Length, in.	6 1/2	8	10
Weight, oz.	8	10	16
Each	25c	35c	40c

### HEAVY COMBINATION PLIERS



**85B2206**—Made of high grade tool steel. Polished jaws, lap joint. An extra heavy strong pattern with wire cutter. A tool of exceptional merit. Usual retail value, 40c to 75c each. (Give size.)

Size	Weight	Price, Each
6 in.	8 oz.	25c
8 in.	12 oz.	30c
10 in.	1 1/4 lbs.	40c

### CARPENTERS' PINNERS



**85B2235**—Forged steel. Extra quality polished jaws. Combines hammer, nail puller, screw driver and tack claw. We handle the very best only. Retail values, 25c to 50c. Weight, 8 to 18 oz. each. (Give size.)

Size, inches	6	8	10	12
Price, each	15c	20c	25c	30c

### FLAT NOSE PLIERS



**85B2160**—Forged steel, polished jaws. Wt., 2 to 5 oz. (Give size.)

Length	Price, each
3 in.	16c
4 in.	18c
5 in.	19c
6 in.	20c
7 in.	22c

### ROUND NOSE PLIERS



**85B2161**—High grade forged steel. Polished jaws. Weight, 2 to 4 oz. (Give size.)

Length, in.	Price, each
4	18c
5	19c

### CHAIN NOSE PLIERS



**85B2164**—Forged steel, highly tempered. Polished oval jaws. Weights, 2 to 3 oz. (Give size.)

Length	Price, each
4 in.	20c
5 in.	22c
6 in.	24c

### LONG CHAIN NOSE PLIERS



**85B2165**—With side cutter. Lap joint, forged steel, tempered and tested. Polished oval jaws. Length, 6 in. Wt., 3 oz. Price, each..... **55c**

### MILLINER'S PLIERS



**85B2168**—Drop forged, tempered steel, with side cutter. Nicely finished. A popular tool for making hat frames. Length, 5 1/2 in. Wt., 3 oz. Price, each..... **45c**

### PARALLEL JAW PLIERS



**85B2172**—Steel, nickel plated. With parallel jaws and gripping strength double that of any other tool. Wts., 5 to 10 oz. each. (Give size.)

Size, in.	Price, each
5	40c
6	50c
7	60c

### LINEMEN'S PLIERS



**85B2174**—Milled Joint Pliers. Forged steel. Side cutter, polished jaws. Wt., 6 to 14 oz. (Give size.)

Size, in.	Price, each
6	45c
7	55c
8	62c

### SIDE CUTTING PLIERS



**85B2175**—Side Cutting Pliers, drop-forged steel. Polished jaws. Weight, 4 and 7 oz. (Give size.)

Size, in.	Price, each
5	30c
6	35c

### CUTTING PLIERS



**85B2184**—Stamped steel for cutting soft wire only. Weights, 4 and 6 oz. each. (Give size.)

Size, in.	Price, each
5	10c
6	13c

### CUTTING PLIERS



**85B2185**—Nickel plated. Polished steel jaws. An excellent wire cutter. Weights, 4 and 6 oz. (Give size.)

Size, in.	Price, each
5	20c
6	30c

### END CUTTING NIPPERS



**85B2188**—Forged steel, tempered jaws. (Give size.)

Lgt., in.	Wt., oz.	Price, each
5	6	45c
6	10	55c
7	16	60c

### END CUTTING NIPPERS



**85B2189**—Forged steel, blued finish with polished jaws. For cutting soft wire. Length, 4 1/2 in. Wt., 4 oz. Price, each..... **20c**

### SIDE-CUTTING PLIERS



**85B2210**—Flat Nose, Side Cutting Pliers. Have parallel jaws. Nickel plated, cruetible steel. Wt., 6 to 12 oz. (Give size.)

Size, in.	Price, each
5	65c
6	80c
7	95c

### COMBINATION PLIERS



**85B2212**—Nickel plated. Extra quality forged steel. Combines plier, wrench, wire cutter, and screw driver. Length, 7 in. Holds up to 1 1/4 in. Wt., 8 oz. Price, each..... **55c**

### LIGHTNING WRENCH



**85B2215**—Drop forged steel. Will grip and shape rod, pipe or nut. Each tool combines a wrench, wire cutter, nail puller and screw driver. (Give size.)

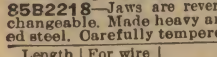
Length	Weight	Price, each
6 in.	5 oz.	45c
7 in.	8 oz.	55c

### GAS BURNER PLIERS



**85B2225**—Cast steel, unpolished. Tempered jaws. A convenient tool for home use or for gas fitters and fixture men. Length, 6 in. Weight, 6 oz. Price, each..... **18c**

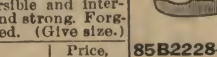
### Nettleton Cutting Nippers



**85B2218**—Jaws are reversible and interchangeable. Made heavy and strong. Forged steel. Carefully tempered. (Give size.)

Length	For wire up to	Weight	Price, each
6 in.	3/16 in.	10 oz.	\$0.75
8 in.	1/8 in.	17 oz.	.85
10 in.	1/4 in.	25 lbs.	1.00
12 in.	1/2 in.	35 lbs.	1.10
14 in.	3/4 in.	45 lbs.	1.25

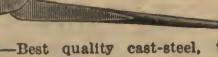
### STANDARD GAS PLIERS



**85B2228**—Best quality cast-steel, tempered jaws. Finely polished and finished. Strong and well made. Will satisfy the most critical user. Length 8 inches. (Give size.)

Weight, 11 oz.	Price, each
11 oz.	23c

### COMBINATION GAS PLIERS



**85B2226**—Knurled Handle. Drop forged steel. Knurled jaws, grooved for pipe. Polished jaws with Wire Cutter. A high grade tool that will stand up under the most severe usage. Length, 9 in. Weight, 12 oz. Price, each..... **40c**

### END-CUT NIPPERS



**85B2192**—Powerful End cutting nippers, made of crucible steel, nickel plated. Has open throat jaws, and compound leverage. Knurled handle. (Give size.)

Size	Weight	Each
4 in.	4 oz.	\$0.78
5 in.	7 oz.	.99
6 in.	10 oz.	1.20
7 in.	13 oz.	1.42

### Starrett's Cutting Nippers



**85B2194**—The jaws are detachable and can be removed, ground and adjusted when worn. Tool steel. A flat spring forms a yielding seat for the end of wire to press against while being cut. (Give size.)

Length	Opens	Weight	Each
5 1/2 in.	3/4 in.	8 oz.	\$2.00
6 1/2 in.	1 in.	15 1/2 oz.	2.40

### Starrett's Cutting Nippers



**85B2195**—Extra steel jaws. Weight, 4 oz. (Give size). Price per pair..... **45c**

## HOLLOW LEATHER PUNCHES



### SIX-TUBE SPRING PUNCHES

**85B2243**—Revolving Spring Punches, with six tubes, assorted sizes. Made of cast-steel, full polished. Length, 9 in. Average wt., 13 oz. Price, each..... **48c**

### SINGLE TUBE PUNCHES



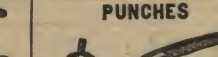
**85B2240**—Polished steel, full size. Length, 8 in. Any size tube from 3 to 9 in. shown below. Average wt., 3 lb. Price, each (state size) **17c**

### Extra Quality Punches

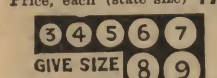


**85B2245**—Four Tube Revolving Punch, nickel-plated, length, 8 3/4 in. Assorted sizes. Steel tubes. Forged steel handle. Packed in a wooden box. Average wt., 1 lb. Price, each..... **58c**

### PARAGON REVOLVING PUNCHES



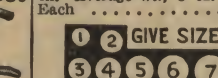
**85B2248**—Made of steel, nickel-plated, with four assorted tubes. Length, 8 3/4 in. Average wt., 8 oz. Price, each..... **72c**



**85B2241**—Extra Tubes (to drive). Wt. per doz., 2 oz. Length, 7 in. (Give size.) Each..... **6c**  
This plate shows sizes of tubes for 85B2240 to 85B2246 inclusive.

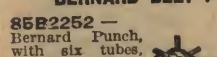


**85B2246**—Six Tube Extra Quality Revolving Punch, nickel-plated, length, 8 3/4 in. with six tubes assorted sizes. Steel tubes. Forged steel handle. Packed in a wooden box. Average wt., 1 lb. Price, each..... **70c**



**85B2249**—Extra tubes (to screw). Wt., doz., 2 oz. Length, 7 in. (Give size.) Each..... **7c**  
This plate shows sizes of tubes of 85B2248 to 85B2253 Patches inclusive.

### BERNARD BELT PUNCHES



**85B2252**—Bernard Punch, with six tubes, assorted sizes, and an adjustable gauge. Steel tube and frame. Length, 8 3/4 in. Nickel plated. Average wt., 1 lb. Price, each..... **\$1.70**

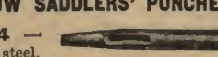
### HOLLOW SADDLERS' PUNCHES



**85B2254**—Tempered steel, for leather, paper, cloth, etc. Average wt., 2 to 3 oz. (Give size.) Lengths, about 4 in.

Size	1	2	3	4
Diam., in.	1/8	3/16	1/4	5/16
Price, each	.50	.60	.70	.80

### UNIVERSAL GLAZIERS' DIAMOND

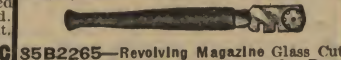


**85B2272**—With this tool anyone can cut glass perfectly. Diamond on one end and steel guide wheel in other end. Length, 3 1/2 in. Wt., 2 oz. (Give size.)

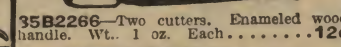
Size	Cuts Glass	Price, Ea
1	Single Thick	\$2.90
2	Single Thick	3.50
3	Double Thick	4.50
4	Double Thick	5.40
5	Plate Glass	10.75

## GLASS CUTTERS

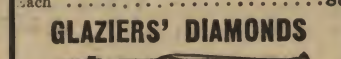
Extra quality, and should not be compared with the many worthless tools of this class on the market. Fitted with the very best hardened steel disc wheels. Length, about 5 1/2 in.



**85B2265**—Revolving Magazine Glass Cutters, with 6 cutters in the head. Rosewood handle. Metal parts nickel-plated. Ship. wt. 1 oz. Each..... **23c**

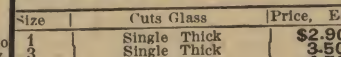


**85B2266**—Two cutters. Enameled wood handle. Wt. 1 oz. Each..... **12c**



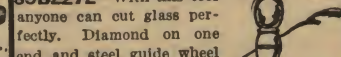
**85B2268**—Enameled wood handle. Patent carbonized wheel. Wt., 1 oz. Each..... **8c**

## GLAZIERS' DIAMONDS



**85B2270**—Thoroughly tested and each is perfect. However, if you are not accustomed to using these diamonds, we suggest you order our Universal, which can be used by a novice as well as by an experienced glass cutter. Wt., about 2 oz. (Give size.) Length, about 7 in.

## UNIVERSAL GLAZIERS' DIAMOND

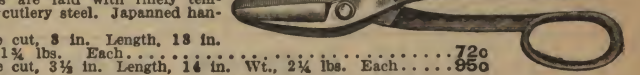


**85B2272**—With this tool anyone can cut glass perfectly. Diamond on one end and steel guide wheel in other end. Length, 3 1/2 in. Wt., 2 oz. (Give size.)

Size	Cuts	Each
9	Single	\$2.95
10	Single	3.50
12	Double	4.35
13	Double	5.50

## STEEL TINNERS' SNIPS

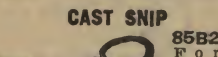
### FAMOUS LAKESIDE BRAND



**85B2362**—Strictly high grade. For professional tinner's use. Blades are laid with finely tempered cutlery steel. Japanese handles.

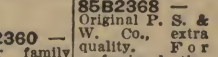
Size cut	Length	Wt.	Each
3 in.	13 in.	1 1/4 lbs.	72c
3 1/2 in.	14 in.	2 1/4 lbs.	95c

### CAST SNIP



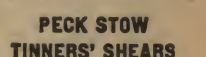
**85B2360**—For family use. Cast iron. For cutting zinc or sheet-iron. Not for professional tinner's use. Size cut, 2 1/2 in. Length, 11 in. Wt., 16 oz. Price, each..... **18c**

### HANDY POCKET SNIP



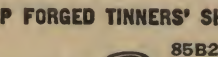
**85B2363**—Size cut, 2 in. Length, 7 in. A new and popular size. Highest quality forged steel, with blades extra tempered steel. Attractively finished. Excellent value. Wt., 8 oz. Each..... **45c**

### PECK STOW TINNERS' SHEARS



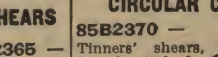
**85B2368**—Original P. S. & W. Co., extra quality. For professional tinner's use. Size cut, 3 in. Length, 12 in. Average wt., 1 1/4 lbs. Each..... **\$1.30**

### DROP FORGED TINNERS' SHEARS



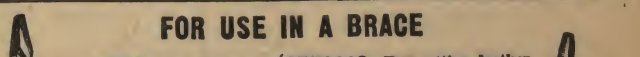
**85B2365**—Size cut, 3 in. Made of solid steel, drop forged, carefully ground and tempered. A good shear for general use. Regular \$1.00 retail value. Length, 12 in. Average wt., 1 1/4 lbs. Price, each..... **60c**

### CIRCULAR CUTTING SHEARS

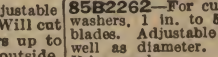


**85B2370**—Tinner's shears, forged steel for straight or curved work. The blades are straight, but have sharp points and the back is ground to allow material to pass freely when cutting curves. Best quality. Size 3 in. cut. Length, 12 1/2 in. Wt., 1 1/4 lbs. Each..... **95c**

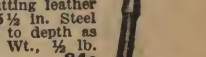
## CUTTERS FOR MAKING LEATHER WASHERS



**85B2260**—Adjustable steel knives. Will cut leather washers up to 5 1/2 in. on the outside. A good, serviceable tool at a low price. Wt., 4 oz. Price, each..... **45c**



**85B2262**—For cutting leather washers, 1 in. to 5 1/2 in. Steel blades. Adjustable to depth as well as diameter. Wt., 1/2 lb. Price, each..... **84c**



**85B2263**—Extra blades. Length, 1 1/2 in. Wt., 1 oz. Price, each..... **22c**



# NAIL PULLERS—WRECKING BARS—TACK CLAWS

## COMMON NAIL PULLER

**85B2380**—With tool steel jaws. Cast iron handle. 75c value. Length, open, 23 in. Wt., 4½ lbs. Each .....43c

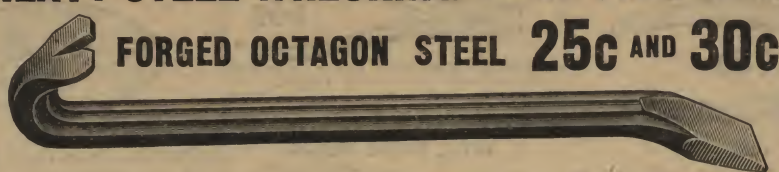
## CYCLOPS NAIL PULLER

**85B2382**—Forged tempered steel jaws. Cast handle. No spring to break. Handle on jaw saves hand from injury and guides jaw to the nail. Length, open, 23 in. Wt., 4½ lbs. Each .....75c

## JUMBO NAIL PULLER

**85B2384**—A high grade tool, with jaws and shanks forged from tool steel. Cast handle. The shank will not turn in handle. Has guard to protect the hand. Total length, open, 23 in. Wt., 4½ lbs. Each.....98c

## HEAVY STEEL WRECKING AND RIPPING BARS



**FORGED OCTAGON STEEL 25c AND 30c**

A Handy Bar for Ripping Shingles, Opening Boxes, Pulling Nails, etc. Forged from ¾ in. octagon steel. Strong wedge point at one end, and a powerful claw at other end. Regular 50c to 75c values. Note our Bargain Prices.

**185B2386**—Length, 24 in. Made of ¾ in. octagon steel. A convenient size for the carpenter, plumber, teamster, etc. Weight, 3¾ lbs. Each **25c**

**185B2387**—Length, 30 in. Made of ¾ in. octagon steel. A large heavy tool for farmers, carpenters, etc. Weight, 4½ lbs. Each.....**30c**

## BOX CHISEL

**85B2390**—A convenient, durable tool. Forged steel. Length, 13¾ in. For opening berry crates or boxes, barrels, etc. Wt., 1¼ lbs. Each, 25c

## BOX HOOK

**85B2392**—Strong forged steel hook. With wood handle, securely fastened. Handle cannot come off. Useful for handling all kinds of boxes, etc. Length, 10 in. Wt., each, 12 oz. Each.....\$0.20 Per doz.....2.20

## STEEL TACK CLAW

**85B2395**—Drop forged from one piece of steel, with the claw end tempered and polished. Length, 7 in. A first-class, durable tool. Wt., 4 oz. Each .....9c

## TACK PULLER

**85B2396**—Lightning Tack Puller. With black enameled wood handle. Stamped steel jaws. Wt., 2 oz. A very convenient labor-saving tool. Length, 6 in. Each.....4c

## MARKING GAUGES AND ROOFING BRACKETS

### DOUBLE BEAM GAUGE

**85B2311**—Two graduated steel beams, 4 and 8 in. Steel roller markers. Nickel-plated. Wt., ¾ lbs. Each .....60c

### TRIPLE BEAM GAUGE

**85B2312**—The three beams are of different lengths, 3, 4 and 8 in. All graduated. Cast steel. Nickel-plated. Wt., 1¼ oz. Each.....80c

### TELESCOPING BEAM GAUGE

**85B2315**—Marking and Mortise Gauge. Graduated. Toothed wheels. Cast steel. White nickel finish. Length, 6½ in. Wt., 8 oz. Each.....42c

### CIRCULAR GAUGE

**85B2317**—Roller Gauge, for circles or straight work. Graduated beam. Fine screw adjustment. Nickel-plated. Length, 8 in. Wt., 8 oz. Each .....70c

### BEECHWOOD GAUGE

**85B2320**—Oval beechwood bar and head. With thumb screw. Steel points. Length, 8 in. Wt., 4 oz. Each .....5c

### ROSEWOOD GAUGE

**85B2322**—Brass thumb screw and shoe. Oval bar steel points. Length, 6 in. Wt., 6 oz. Each .....50c

### STANLEY BUTT GAUGE

**85B2324**—Beechwood with brass face and box wood screw. Length, 8½ in. Wt., 4 oz. Each .....9c

### 85B2325

**85B2325**—Boxwood with brass screw and shoe. Plated head. Length, 8½ in. Wt., 5 oz. Each .....28c

### PANEL GAUGE

**85B2327**—Made of beechwood. With boxwood thumb screws; oval bar. Length, 17 inches. A good tool at a low price. Wt., 8 oz. Each.....15c

### IMPROVED BUTT GAUGE

**85B2330**—Graduated to 2 inch. Two bars with steel cutters. Outer cutter for gauging on edge of door; inner cutter for gauging from back of jamb. Nickel-plated. Wt., 6 oz. Each .....58c

### CLAPBOARD MARKER

**85B2331**—Stanley's No. 94. For door hanging and mortising. Nickel-plated iron. Steel markers. Length, 3 in. Wt., 10 oz. Each .....67c

### COMBINATION BUTT GAUGE

**85B2332**—Hardened double edge spurs. Cast iron. Nickel-plated. Length, 3½ in. Wt., 8 oz. Each .....64c

### STEEL BUTT GAUGE

**85B2334**—Steel, nickel-plated. Use knife point. Size, 5½ in. Wt., 1 oz. Each .....20c

### SOCKET SCRATCH AWL

**85B2305**—Polished steel blade, with socket for hardwood handle. A high grade attractive tool. Length, 7 in. Wt., 2 oz. 15c retail value. Each .....9c

### CLAPBOARD GAUGE

**85B2340**—Slips under the last clapboard. Clapboard can be placed on the upper gauge until nailed. Sets up to 4½ in. to the weather. Wt., 12 oz. Each .....35c

### CLAPBOARD MARKER

**85B2342**—For right or left hand. Cutters are parallel with the guides and beveled on one side only, insuring a close joint when sawed. Length, 8 in. Wt., 1 lb. Each .....90c

### CLAPBOARD MARKER

**85B2344**—For quickly and accurately marking clapboards or siding. Steel, with wood handle moving marker half inch, makes a full line over edge of corner board. Length, 8½ in. Wt., 14 oz. Each .....32c

### CHALK LINE REEL

**85B2308**—Beechwood reel; length, 3 in., with steel scratch awl length, 3½ in. Wt., 2 oz. Each .....6c

### Note—For Chalk Lines, see index.

## COMPASSES

**85B2280**—Polished Cast steel. The common well known form of compass. A good, low priced tool, and excellent value at our prices. Wt., 2 to 4 oz. (Give size.) Length, 5 in. Each .....10c 6 in. ....11c 7 in. ....13c 8 in. ....15c

## EXCELSIOR DIVIDERS

**85B2282**—Made of stamped steel, with inserted points of Stubbs steel, properly tempered. Nickel plated. With thumb screw for coarse adjustment and small round nut for fine adjustment. (Give size.) Wt., 4 and 6 oz. Length, 6 in. Each .....34c Length, 8 in. Each.....48c

## WING DIVIDERS

**85B2284**—Polished Cast steel. With thumb screw and spring. Thumb screw for coarse adjustment. Small round nut for fine adjustment. A convenient tool. (Give size.) Length, 6 in. Wt., 4 oz. Each .....14c Length, 8 in. Wt., 6 oz. Each .....19c Length, 10 in. Wt., 8 oz. Each .....25c

## EXTENSION DIVIDERS

**85B2286**—Polished Cast steel. Single leg. A lead pencil can be used in place of the movable point. Wt., 4 to 7 oz. (Give size.) Length, 6 in. Each .....40c Length, 7 in. Each .....48c Length, 8 in. Each .....50c

## PENCIL HOLDERS

**85B2288**—Fits any divider. Made of steel. Length, 1¾ in. White nickel-plated. Complete with lead pencil. Without divider. Wt., 1 oz. Each .....12c

## OUTSIDE CALIPERS

**85B2290**—Polished cold rolled steel. A serviceable, inexpensive tool for taking ordinary measurements. Wt., 1 to 4 oz. (Give size.) Size Each 4 in. ....8c 5 in. ....10c 6 in. ....12c 8 in. ....15c

## INSIDE CALIPERS

**85B2291**—Polished cold rolled steel. A serviceable, inexpensive tool for taking ordinary measurements. Wt., 1 to 2 oz. (Give size.) Size Each 3 in. ....7c 4 in. ....8c 5 in. ....10c 6 in. ....12c

## DOUBLE CALIPERS

**85B2292**—Stamped from cold rolled steel. Bright finish. Riveted joint. Very convenient and inexpensive tool for taking ordinary inside and outside measurements. One end for inside, the other end for outside. Size, 4 in. Wt., 2 oz. Each .....12c Size, 6 in. Wt., 2 oz. Each .....14c

## TRAMMEL POINTS

**85B2300**—Fits any straight stick from ½ to 1¼ in. wide. Nickel-plated with steel points. Will hold pencil. Wt., 4 oz. Pair .....45c

## TRAMMEL POINTS

**85B2302**—Nickel-plated. Steel points. Fits any bar ¾ to 1½ inches wide. Points may be removed and a pencil used. Wt., 10 oz. Length, 6 in. Per pair .....\$1.50

## COMBINATION ANGLE DIVIDERS

**85B2287**—For mitre cuts, etc. Marked for 4, 6, 8 or 10 sided work. T head detachable. Nickel plated iron. Length, 7½ in. Width, 5 in. Wt., 10 oz. Each.....\$1.05

## WING CALIPERS

**85B2294**—Polished steel. With thumb screw. Weight, 4 and 6 oz. (Give size.) Length, 6 in. Each .....18c Length, 8 in. Each .....24c

## REGISTERING CALIPERS

**85B2296**—Nickel-plated. For outside or inside. Length, 4 in. Wt., 1 oz. Each .....38c **85B2297**—Length, 6 in. Wt., 2 oz. Each.....50c

## STEEL STAMPS AND BRASS STENCILS

### STEEL STAMPS

These steel stamps are extensively used for stamping names on wood, leather, metals, etc. Notice—Hand-made, of best tool steel. Prices are for one line stamps with any letters or figures desired. Mailed direct from factory, POSTAGE PAID.

**285B2724—INITIAL STAMPS**  
Size 1/16 in. ....20c  
Size ¼ in. ....20c  
Size 3/16 in. ....25c  
Size ½ in. ....38c  
Shipped from factory in Eastern Iowa

### 85B2725—NAME STAMPS

Per letter  
Size 1/16 in. ....15c  
Size ¼ in. ....15c  
Size 3/16 in. ....20c  
Size ½ in. ....30c

Made to order and mailed to you, postage paid. Write plainly, like print, to avoid errors. Shipped from factory in Eastern Iowa

## STEEL LETTERS AND FIGURES

**EXTRA QUALITY**  
FULL SIZE  
1/16 IN.  
1/8 IN.  
3/16 IN.  
1/4 IN.  
3/8 IN.  
Tempered steel. Used for stamping tools, etc. The alphabet includes 26 letters, one period, and one &. **85B2720**—Steel Letters. Weights range from ¾ to 5 lbs. per alphabet. Give size wanted. Size of letters.....1/16 3/16 1/4 3/8 1/2 3/4 1 1 1/2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 Per alphabet.....75c 90c 1.20 1.50 1.80 2.25 2.60 3.00 3.40 3.80 4.20 4.60 5.00 5.40 5.80 6.20 6.60 7.00 7.40 7.80 8.20 8.60 9.00 9.40 9.80 10.20 10.60 11.00 11.40 11.80 12.20 12.60 13.00 13.40 13.80 14.20 14.60 15.00

**STEEL FIGURES**  
Weights range from 3 oz to 1½ lbs. per set. Give size wanted. Size of figures.....1/16 3/16 1/4 3/8 1/2 3/4 1 1 1/2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 Per set of figures.....25c 30c 40c 50c 60c 70c 80c 90c 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00 3.10 3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00

## BRASS STENCILS

Improved, interchangeable Lock Stencils, made of spring brass. Lay flat and will not curl up. With periods, etc., for printing names and general use. Ink and brush not included.

**85B2728**—Set of 55 pieces, letters only. Weight, per set, 5 to 10 oz. (Give size.) Size (height of letter inches).....1/4 1/2 3/4 1 1 1/2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 Per set .....50c 60c 70c 80c 90c 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00

**85B2729**—Set of 70 pieces, letters and figures. Weight, per set, 6 to 12 oz. (Give size.) Size (height of letter, inches).....1/4 1/2 3/4 1 1 1/2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 Per set .....65c 70c 75c 80c 85c 90c 95c 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00

## STENCIL BRUSHES

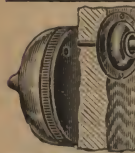
**85B2732**—Large size. Hair bristles. Wood handle. Zinc ferrule. Diam., ¾ in. Weight, 2 oz. Each .....12c

**85B2733**—Small size. Hair bristles. Wood handle. Zinc ferrule. Diam., ¾ in. Weight, 1 oz. Each .....10c

## STENCIL INK

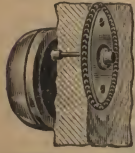
**85B2730**—Black Ink for interchangeable stencils, complete with sponge. Large size. Diam. ink can, 4¼ in. Weight, 14 oz. Each .....20c **85B2731**—Small size. Diam. ink can, 2 in. Wt., 2 oz. Each.....9c

## CLEAR RINGING DOOR BELLS



### PUSH BUTTON DOOR BELL

**85B4710**—Easily attached to the door casing. Operated with a push button without winding or battery. Will not readily get out of order. Diameter of bell, 4 in. Nickel-plated, with polished solid bronze push button. Wt., 1¼ lbs. Each.....60c



### PUSH BUTTON DOOR BELL

**85B4712**—Winds up like a clock by turning the gong. Rings like an electric bell. Diameter of gong, 3½ in.; bell metal nickel-plated. Complete with bronze push button and escutcheon. Polished antique copper finish. Has wire connecting bell with turn, which may be cut to length. Size plate, 1½x4 in. Wt., 1 lb. Each.....65c



### PUSH BUTTON DOOR BELL

**85B4713**—Rings like an electric bell. Winds up like a clock by turning the gong. Diameter of gong, 3½ in.; nickel-plated. Complete with bronze push button, polished antique copper finish with wire connecting bell with turn, which may be cut to length. Size plate, 1½x4 in. Wt., 1 lb. Each.....65c

### ROTARY DOOR BELL



**85B4715**—Rotary Electric Stroke Door Bell. Made of pure bell metal, with bronze metal turn and plate, all finished in antique copper. Rings like an electric bell by simply turning knob. Complete with square bar connecting bell with turn, which may be cut to length. Diameter of gong, 3½ in. Size of plate, 1½x4 in. Wt., 1 lb. Each .....55c

### ROTARY DOOR BELL



**85B4718**—Rings like an electric bell. Winds up like a clock, by turning the gong. Diameter of gong, 3½ in.; nickel-plated. Complete with bronze push button, polished antique copper finish, with wire connecting bell with turn, which may be cut to length. Size of plate, 1½x4 in. Wt., 1 lb. Each .....27c

## ALARM DOOR BELLS AND TRIP GONGS

### ALARM DOOR BELL



**85B4702**—To attach above door. Will automatically ring each time door is opened. Bell of special steel. Gold bronzed. Frame is made of cast iron, brown lacquer finish. Simple, compact, and will not easily get out of order. Diameter of gong, 4 in. Wt., 1¼ lbs. Each .....30c

### SPRING TRIP GONG BELLS

**85B4700**—Genuine Bronze Bell Metal Gong. Finely polished. Cast iron frame, nicely japanned. Well made and finely finished. Gives loud, single stroke by pulling on lever. Simple, positive mechanism, will not readily get out of order. Adapted for engines, mines, elevators, etc. (Give size.) Diam., in.....3 4 5 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 Wt., lbs.....4 5 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 Each .....42c 50c 58c 66c 74c 82c 90c 98c 1.06 1.14 1.22 1.30 1.38 1.46 1.54 1.62 1.70 1.78 1.86 1.94 2.02 2.10 2.18 2.26 2.34 2.42 2.50 2.58 2.66 2.74 2.82 2.90 2.98 3.06 3.14 3.22 3.30 3.38 3.46 3.54 3.62 3.70 3.78 3.86 3.94 4.02 4.10 4.18 4.26 4.34 4.42 4.50 4.58 4.66 4.74 4.82 4.90 4.98 5.06 5.14 5.22 5.30 5.38 5.46 5.54 5.62 5.70 5.78 5.86 5.94 6.02 6.10 6.18 6.26 6.34 6.42 6.50 6.58 6.66 6.74 6.82 6.90 6.98 7.06 7.14 7.22 7.30 7.38 7.46 7.54 7.62 7.70 7.78 7.86 7.94 8.02 8.10 8.18 8.26 8.34 8.42 8.50 8.58 8.66 8.74 8.82 8.90 8.98 9.06 9.14 9.22 9.30 9.38 9.46 9.54 9.62 9.70 9.78 9.86 9.94 10.02 10.10 10.18 10.26 10.34 10.42 10.50 10.58 10.66 10.74 10.82 10.90 10.98 11.06 11.14 11.22 11.30 11.38 11.46 11.54 11.62 11.70 11.78 11.86 11.94 12.02 12.10 12.18 12.26 12.34 12.42 12.50 12.58 12.66 12.74 12.82 12.90 12.98 13.06 13.14 13.22 13.30 13.38 13.46 13.54 13.62 13.70 13.78 13.86 13.94 14.02 14.10 14.18 14.26 14.34 14.42 14.50 14.58 14.66 14.74 14.82 14.90 14.98 15.06 15.14 15.22 15.30 15.38 15.46 15.54 15.62 15.70 15.78 15.86 15.94 16.02 16.10 16.18 16.26 16.34 16.42 16.50 16.58 16.66 16.74 16.82 16.90 16.98 17.06 17.14 17.22 17.30 17.38 17.46 17.54 17.62 17.70 17.78 17.86 17.94 18.02 18.10 18.18 18.26 18.34 18.42 18.50 18.58 18.66 18.74 18.82 18.90 18.98 19.06 19.14 19.22 19.30 19.38 19.46 19.54 19.62 19.70 19.78 19.86 19.94 20.02 20.10 20.18 20.26 20.34 20.42 20.50 20.58 20.66 20.74 20.82 20.90 20.98 21.06 21.14 21.22 21.30 21.38 21.46 21.54 21.62 21.70 21.78 21.86 21.94 22.02 22.10 22.18 22.26 22.34 22.42 22.50 22.58 22.66 22.74 22.82 22.90 22.98 23.06 23.14 23.22 23.30 23.38 23.46 23.54 23.62 23.70 23.78 23.86 23.94 24.02 24.10 24.18 24.26 24.34 24.42 24.50 24.58 24.66 24.74 24.82 24.90 24.98 25.06 25.14 25.22 25.30 25.38 25.46 25.54 25.62 25.70 25.78 25.86 25.94 26.02 26.10 26.18 26.26 26.34 26.42 26.50 26.58 26.66 26.74 26.82 26.90 26.98 27.06 27.14 27.22 27.30 27.38 27.46 27.54 27.62 27.70 27.78 27.86 27.94 28.02 28.10 28.18 28.26 28.34 28.42 28.50 28.58 28.66 28.74 28.82 28.90 28.98 29.06 29.14 29.22 29.30 29.38 29.46 29.54 29.62 29.70 29.78 29.86 29.94 30.02 30.10 30.18 30.26 30.34 30.42 30.50 30.58 30.66 30.74 30.82 30.90 30.98 31.06 31.14 31.22 31.30 31.38 31.46 31.54 31.62 31.70 31.78 31.86 31.94 32.02 32.10 32.18 32.26 32.34 32.42 32.50 32.58 32.66 32.74 32.82 32.90 32.98 33.06 33.14 33.22 33.30 33.38 33.46 33.54 33.62 33.70 33.78 33.86 33.94 34.02 34.10 34.18 34.26 34.34 34.42 34.50 34.58 34.66 34.74 34.82 34.90 34.98 35.06 35.14 35.22 35.30 35.38 35.46 35.54 35.62 35.70 35.78 35.86 35.94 36.02 36.10 36.18 36.26 36.34



# MACHINISTS' HIGH GRADE SMALL STEEL TOOLS

### SPRING DIVIDERS

**85B2480—48c**  
Starrett's Yankee No. 83 with solid nut. Give size.

Size	Wt.	Each
3 in.	3 oz.	48c
4 in.	4 oz.	52c
5 in.	5 oz.	56c
6 in.	6 oz.	61c
8 in.	8 oz.	78c

### SPRING DIVIDERS

**85B2482—78c**  
Starrett's Patent Spring Dividers, No. 77, with quick acting nut. Give size.

Size	Wt.	Each
3 in.	1 1/2 oz.	\$0.78
4 in.	2 oz.	.99
5 in.	2 1/2 oz.	.99
6 in.	3 oz.	1.20
8 in.	4 oz.	1.43

### SPRING DIVIDERS

**85B2484—51c**  
Massachusetts Tool Co. Spring Dividers, with quick acting spring nut.

Size	Wt.	Each
3 in.	1 oz.	51c
4 in.	1 1/2 oz.	56c
5 in.	2 oz.	58c
6 in.	2 1/2 oz.	60c
8 in.	4 oz.	70c

### OUTSIDE CALIPERS

**85B2490—47c**  
Starrett's Yankee No. 79 with solid nut. Wt. 1 to 6 oz. each.

Size	Each
3 in.	47c
4 in.	50c
5 in.	55c
6 in.	58c
8 in.	68c

### OUTSIDE CALIPERS

**85B2492—80c**  
Starrett's Patent Outside Calipers, No. 75, with quick acting spring nut. Wt. 1 to 6 oz. each.

Size	Each
3 in.	80c
4 in.	.89
5 in.	.92
6 in.	.97
8 in.	1.04
10 in.	1.25

### OUTSIDE CALIPERS

**85B2494—52c**  
Massachusetts Tool Co. Outside Calipers, with quick acting spring nut. Wt. 1 to 7 oz. each.

Size	Each
3 in.	52c
4 in.	56c
5 in.	59c
6 in.	61c
8 in.	71c

### INSIDE CALIPERS

**85B2496—50c**  
Starrett's Yankee Inside Calipers, No. 73 with solid nut. Give size.

Size	Wt.	Each
3 in.	2 oz.	50c
4 in.	2 1/2 oz.	50c
5 in.	3 oz.	55c
6 in.	3 1/2 oz.	58c
8 in.	5 oz.	69c

### INSIDE CALIPERS

**85B2498—88c**  
Starrett's Patent Inside Calipers, No. 74, with quick acting spring nut. Give size.

Size	Wt.	Each
3 in.	2 oz.	88c
4 in.	2 1/2 oz.	.93
5 in.	3 oz.	1.04
6 in.	3 1/2 oz.	1.04
8 in.	5 oz.	1.25

### INSIDE CALIPERS

**85B2499—50c**  
Mass. Tool Co. Inside Calipers, with quick acting spring nut. High grade.

Size	Wt.	Each
3 in.	2 oz.	50c
4 in.	2 1/2 oz.	54c
5 in.	3 oz.	60c
6 in.	3 1/2 oz.	62c
8 in.	5 oz.	70c

### THREAD CALIPERS

**85B2504—51c**  
Massachusetts Tool Co. Thread Calipers, with quick acting spring nut. Wt. 1 to 3 oz.

Size	Each
3 in.	51c
4 in.	54c
5 in.	57c

### THREAD CALIPERS

**85B2502—66c**  
Starrett's Yankee No. 80, with solid nut. Thin flat points. Weight, 1 to 4 oz. Give size.

Size	Each
3 in.	66c
4 in.	68c
5 in.	66c

### LOCK-JOINT CALIPERS

**85B2508—50c**  
Starrett's No. 38. Joint locks securely. Finest tool steel, tempered and polished. Give size.

Size	Each
4 in.	50c
6 in.	57c
8 in.	58c
10 in.	1.03

### LOCK-JOINT CALIPERS

**85B2510—Starrett's No. 39.** Sensitive, quickly adjusted and locks firmly. Finely tempered and polished. Weight, 2 to 8 oz. Give size.

Size	Each
4 in.	\$0.61
6 in.	.67
8 in.	.86
10 in.	1.03

### LOCK-JOINT CALIPERS

**85B2512—Starrett's No. 43.** With improved lock-joint attachment and sensitive adjustment. Finely tempered and polished.

Size	Wt.	Each
6 in.	3 oz.	\$0.70
8 in.	4 oz.	.85
10 in.	5 oz.	1.05

### HERMAPHRODITE CALIPERS

**85B2514—Starrett's No. 41.** With adjustable point, and improved firm joint. Finely tempered and polished.

Size	Wt.	Each
4 in.	2 oz.	44c
6 in.	3 oz.	55c
8 in.	4 oz.	69c

### EXTENSION DIVIDERS

**85B2516—Starrett's No. 85.** With caliper legs. Finely tempered and polished. Give size.

Size	Wt.	Each
7 in.	1 lb.	1.60
9 in.	1 lb.	1.60
11 in.	1 lb.	1.60
13 in.	1 lb.	1.60

### MACHINISTS' TOOL CHEST

Made of selected Red Gum or Hazel with mahogany panels, nicely polished. Brass locks, pull and hinges. All the drawers lock by closing the cover. Retail value, \$7 to \$10 each.

**185B2800—With 2 drawers.** Outside measurements, length, 21 in.; width, 13 in.; depth, 10 in. Receptacle under lid 18x10x3 in. deep. First drawer, 17x8 1/2 x1 1/2 in. deep. Second drawer, 17x8 1/2 x2 1/2 in. deep. Shipping weight, 30 lbs. Each... **\$5.50**

**185B2802—With 3 drawers.** Outside measurements, 24 in. long, 14 1/2 in. wide, 13 in. deep. Receptacle under lid, 21x11 1/2 x3 in. deep. First drawer, 20x10 1/2 x1 in. deep. Second drawer, 20x10 1/2 x1 1/2 in. deep. Third drawer, 20x10 1/2 x2 1/2 in. deep. Shipping weight, 46 lbs. Each... **\$6.70**

**185B2804—With 3 drawers.** Outside measurements, 30 in. long, 14 1/2 in. wide, 13 in. deep. Receptacle under lid, 27x11 1/2 x3 in. deep. First drawer, 26x10x1 in. deep. Second drawer, 26x10x1 1/2 in. deep. Third drawer, 26x10x2 1/2 in. deep. Shipping weight, 52 lbs. Each... **\$7.95**

### TOOLMAKERS' DIVIDERS AND CALIPERS

STARRETT'S HIGHEST QUALITY. The Skilled Mechanic's Delight. Legs are drawn down from round drill rod; makes them very stiff and hard tools.

#### TOOLMAKERS' DIVIDERS

**85B2517—Starrett's No. 277.** Finest made. With solid nut only.

Size	Wt.	Each
3 in.	2 oz.	\$0.90
4 in.	2 1/2 oz.	1.08
5 in.	3 oz.	1.10
6 in.	3 1/2 oz.	1.30

#### TOOLMAKERS' INSIDE CALIPERS

**85B2518—Starrett's No. 274.** Finest made. With solid nut only.

Size	Wt.	Each
3 in.	1 oz.	\$0.90
4 in.	1 1/2 oz.	1.08
5 in.	2 oz.	1.10
6 in.	2 1/2 oz.	1.30

#### TOOLMAKERS' OUTSIDE CALIPERS

**85B2519—Starrett's No. 275.** Finest made. With solid nut only.

Size	Wt.	Each
3 in.	1 oz.	\$0.90
4 in.	1 1/2 oz.	1.08
5 in.	2 oz.	1.10
6 in.	2 1/2 oz.	1.30

### MACHINISTS' TWO-DRAWER TOOL CHEST

**185B2801—Made of selected hardwood.** Attractive waxed gloss mission finish. Brass lock. Brass plated iron handle on ends. Two drawers. Space under lid. Front panel automatically locks the drawer by lifting up from under bottom drawer, snapping into place in front of drawer. Attractive, substantial and low priced. Outside measurements: Length, 20 in.; width, 12 in.; height, 10 in. First drawer, 17x8 1/2 x1 1/2 in. deep. Second drawer, 17x8 1/2 x2 in. deep. Space under lid, 18 1/2 x10 1/2 x3 1/2 in. deep. Shipping weight, about 30 lbs. Each... **\$5.25**

### MACHINISTS' TOOL CASES

FOR BENCH OR PORTABLE USE

**185B2810—Finely finished chestnut.** Size, outside, 19 in. long, 9 in. wide, 11 1/2 in. high. Has four drawers, the lower one 3 1/2 in. deep, and the three top ones 1 in. deep inside. Weight, 17 lbs. Each... **\$5.60**

**185B2812—Covered with waterproof leatherette.** Size, outside, 20 1/2 in. long, 9 1/2 in. wide, 11 1/2 in. high. Has five drawers, the lower one 2 1/2 in. deep, the next one 1 1/2 in., and the others 1 in. deep inside. Weight, 28 lbs. Each... **\$7.95**

### STARRETT'S COMBINATION SET

**85B2525—Hardened Blades.** Starrett's No. 9, with center head and 7 in. bevel protractor head. Each head may be instantly removed and replaced or used interchangeably with the scale.

Blade, 9 in. Weight, 1 1/2 lbs. Per set... **\$2.68**

Blade, 12 in. Weight, 2 lbs. Per set... **2.85**

Blade, 18 in. Weight, 2 1/2 lbs. Per set... **3.40**

### STARRETT'S COMBINATION SQUARES

With Tempered Blade

**85B2522—Starrett's No. 11.** The blade is hardened and polished. Graduated in 8ths, 16ths, 32nds, 64ths in. With heavy, distinct figures reading both ways. Accurate and perfect. Complete with accurate, well finished cast square and center head and scriber. Worth \$1.50 to \$2.00.

Blade, 6 in. Wt., 1 1/2 lbs. Set... **\$1.08**

Blade, 9 in. Wt., 1 lb. Set... **1.25**

Blade, 12 in. Wt., 1 1/2 lbs. Set... **1.44**

With Untempered Blade

**85B2523—Starrett's No. 23.** The blade is polished but not tempered. Graduated 8ths, 16ths, 32nds, 64ths in. A fine tool for wood workers. Complete with accurate cast square and center head and scriber. Give size.

Blade, 9 in. Wt., 1 lb. Set... **\$1.07**

Blade, 12 in. Wt., 1 1/2 lbs. Set... **1.30**

### MASS. TOOL CO. COMBINATION SET

**85B2528—Accurately made,** with milled angles. Blade is of crucible steel, carefully tempered and graduated in 8ths, 16ths, 32nds, and 64th inches. Give size.

Blade, 9 in. Weight, 1 1/2 lbs. Per set... **\$2.45**

Blade, 12 in. Weight, 1 1/2 lbs. Per set... **2.65**

Blade, 18 in. Weight, 2 lbs. Per set... **3.15**

## MACHINISTS' SQUARES, RULES AND GAUGES

### COMBINATION INCLINOMETER

**85B2532—Starrett's Patent Inclinator, Try Square and Bevel Protractor, No. 10.** Sets at from 0 to 90 degrees. Blades, 12 in. Weight, 1 1/2 lbs. Each... **\$3.45**

### DOUBLE SQUARE

**85B2536—Starrett's No. 13.** With level and hardened blade. Give size.

Blade	Wt.	Each
4 in.	4 oz.	\$1.03
6 in.	10 oz.	1.68

### COMBINATION BEVEL

**85B2542—Starrett's No. 49.** Polished steel. Sets at any angle. Will lay flat. Length, 5 in. Weight, 4 oz. Each... **\$1.68**

### STEEL RULES

Spring Tempered

**85B2550—Starrett's No. 300.** Accurate. Graduated as follows: First corner, 64ths; 2nd corner, 32nds; 3rd corner, 16ths; 4th corner, 8ths. Weights, 1/2 to 2 oz. each. Give size.

Size	Wt.	Each
3 in.	2 oz.	34c
4 in.	2 1/2 oz.	33c
6 in.	4 oz.	47c
8 in.	6 oz.	73c
12 in.	1 lb.	90c

### STEEL HOOK RULES

**85B2554—Starrett's No. 419.** Convenient in taking measurements from round corners, through hubs of pulleys, etc. Thickness of rule 3/64 in. Spring tempered, graduated in 8ths, 16ths, 32nds, and 64ths in. and in 32nds on opposite sides of one end. Give size.

Length	Wt.	Each
6 in.	1 oz.	74c
12 in.	2 oz.	\$1.30

### CENTER GAUGE

**85B2560—Starrett's No. 390.** Spring tempered. Angles 60 degrees, graduated in 32nds, 24ths, 20ths and 14ths in. Length, 1 1/2 in. Wt., 1/2 oz. Each... **23c**

### SCREW PITCH GAUGE

**85B2572—Starrett's Improved, No. 40.** Has 22 pitches. Sizes 9 to 40 threads to the inch. Length, 2 1/2 in. Wt., 1 oz. Each... **82c**

**85B2573—Starrett's Screw Pitch Gauge, No. 4.** Has 24 pitches. Sizes 0 to 30. Length, 2 1/2 in. Weight, 2 oz. Each... **97c**

### WIRE GAUGES

English Standard Polished Cast Steel

**85B2591—Gauges No. 0 to 36.** Wt., 8 oz. Each... **\$1.60**

**85B2592—Gauges No. 6 to 36.** Wt., 2 oz. Each... **\$1.00**

American Standard (B. & S.)

**85B2593—Gauges from 5 to 36,** with dec. equiv. Wt., 2 oz. Each... **\$1.65**

### PRECISION CENTER PUNCH

**85B2580—Mass. Tool Co.'s.** Has a slot and hole milled so an exact center can be verified while punch is kept perpendicular. Size, 1 1/2 x1 1/2 in. Weight, 2 oz. Each... **40c**

### IMPROVED SCRIBER

**85B2576—Starrett's No. 67,** nickel-plated, with long and short points. Length, with long point, 12 1/2 in. Weight, 2 oz. Each... **35c**

### POCKET CALIPER

**85B2558—Starrett's No. 52A.** Height, 8 in. Without extension. Wt., 1 1/2 lbs. Each... **\$1.68**

**85B2569—Starrett's No. 52C.** Height, 12 in. With 6 in. extension. Wt., 2 1/2 lbs. Each... **\$2.70**

### MARKING AWLS

**85B2577—Made of steel,** twisted with polished points. 25c value. Length, 7 in. Wt., 1 oz. Each... **15c**

### CALIPER PUL

Solid German Silver. Graduated to 16ths and 32nds. Protractor reads to 1/32 degree.

**85B1830—Length, 6 in.** Wt., 2 oz. Each... **\$1.10**

**85B1831—Length, 12 in.** Wt., 4 oz. Each... **\$1.80**

### GOODSELL-PRATT TRY SQUARE

**85B2535—Polished blades.** Nickel plated handles. Give size.

Blade	Wt.	Each
6 in.	1/2 lb.	\$0.84
8 in.	1 1/4 lbs.	1.00
10 in.	1 3/4 lbs.	1.18

### THIN STEEL TRY SQUARES

**85B2540—Starrett's No. 21.** For Machinists and Draftsmen. Made of steel tempered and finely polished. Very accurate. 16ths and 64ths one side; 32ds and 64ths other side. Thickness, 1/32 in.

Size	Wt.	Each
2 1/2 in.	1/4 oz.	\$0.90
3 1/2 in.	3/4 oz.	1.30

### DEPTH GAUGE

**85B2565—Mass. Tool Co.'s.** high grade steel, finely polished and tempered, with screw to adjust just to 30, 45 and 60 degrees. Graduated in 32nds and 64ths. Give size.

Blade	Wt.	Each
4 in.	2 oz.	83c
6 in.	2 oz.	98c

### NARROW RULES

**85B2552—Starrett's No. 330.** 3/16 inch wide. No. 18 gauge, spring tempered, graduated one corner each side, whole length in 32ds and 64ths. Wt. about 1/2 oz. Give size.

Size	Wt.	Each
3 in.	2 oz.	20c
4 in.	3 oz.	30c
6 in.	6 oz.	55c
8 in.	9 oz.	75c
12 in.	1 lb.	95c

### HIGH GRADE MICROMETER CALIPERS

**85B2545—Mass. Tool Co.** Micrometer Caliper. Light but strong forged frame. Length, 6 1/2 in. Capacity, 0 to 3 in. by half-thousandths. Three anvils are furnished, measuring from 0 to 1 in., 1 to 2 in., 2 to 3 in. Patent locking device, hardened steel screw and nut. Every necessary compensation for wear. \$8.50 value. Wt., 12 oz. Each... **\$6.75**



# OUR STERLING TOOL CHEST

EACH TOOL STRICTLY FIRST-CLASS \$9.25



**185B2770**—A substantial chest, nicely finished and packed complete with an assortment of standard tools as illustrated. The chest is well made with blind dovetail corners, good lock and hinges, heavy handles, and sliding tray. Inside dimensions, 28x14x9 1/2 in. The tools are all selected from our regular stock, are of a strictly standard grade, suitable for everyday use. Shipping weight, 75 lbs. Regular \$12.50 retail value.

36 Pieces: Each Tool perfect. A first-class set in every particular.

- |                                    |                                |                        |
|------------------------------------|--------------------------------|------------------------|
| 1 Wood Jack Plane.                 | 1 Bit Brace, 10 in.            | 1 Oil Stone, 8x2 in.   |
| 1 Iron Block Plane.                | 1 Screwdriver.                 | 1 Rule, 2 ft.          |
| 1 Hand-Saw, Lakeside               | 1 Shingling Hatchet.           | 1 Carpenters' Pencil.  |
| 22 in.                             | 1 Iron Spoke Shave.            | 1 Monkey Wrench, 8 in. |
| 1 Compass Saw.                     | 1 Steel Nail Hammer.           | 1 Oil Can.             |
| 4 Chisels, 1/4, 3/8, 1/2, 3/4 in.  | 1 Pocket Level, nickel-plated. | 1 Flat File, 6 in.     |
| 4 Auger Bits, 3/8, 1/2, 3/4, 1 in. | 1 Try Square, 6 in.            | 1 Round File, 5 in.    |
| 2 Gimlet Bits.                     | 1 Marking Gauge.               | 1 Taper File, 5 in.    |
| 1 Screwdriver Bit.                 | 1 Flat Cutting Pliers.         | 3 File Handles.        |
| 1 Hollow Handle, with 10 tools.    | 1 Pair Compass, 6 in.          | 1 Can Glue.            |

**185B2770**—Price, Chest and Tools Complete..... \$9.25

**185B2771**—Chest without tools. Shipping weight, 43 lbs. Ea. \$3.25

# OUR LAKESIDE-QUALITY CHEST

EVERY TOOL HIGH QUALITY \$8.45



**185B2775**—A well selected assortment of thoroughly dependable tools, for the high grade mechanic or the householder. Each tool is the best of its class. Packed in a fine, hardwood chest, of a convenient size, fitted with Brass Corners and padlock.

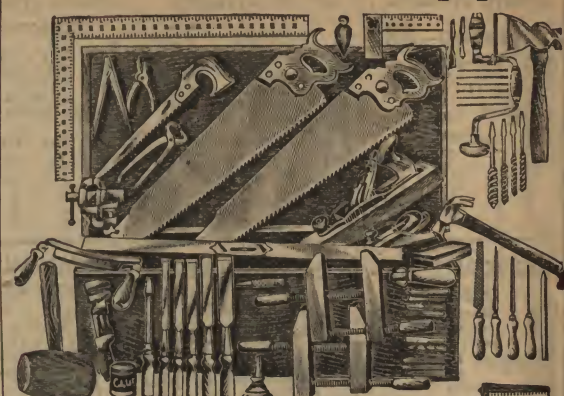
The chest is a handsome piece of furniture, with its Brass Corners and varnished finish. Inside dimensions 27 1/2 x 8 x 4 in. Has a saw rack in the cover and partitions in one end for loose nails, screws, etc. Shipping weight, 34 lbs. Usual retail value, \$10.50 to \$12.00. Contains the following first-quality tools:

- |   |  |
|---|--|
| 1 Lakeside Hand Saw, 24 in. No. L 8, with skew back.  | 1 Pair Combination Pliers.   |
| 1 Lakeside Hammer, crucible steel, nickel-plated, octagon face and neck.                          | 1 Flat Mill File, 8 in. with handle.   |
| 1 Lakeside Block Plane, 6 in. long, 1 1/4 in. cutter, adjustable throat, nickel-plated trimmings. | 1 Slim Taper Saw File, 5 in. with handle.  |
| 1 Lakeside Ratchet Bit Brace, 8 in. sweep, nickel-plated.   | 1 Gimlet Bit, 2/32 in.   |
| 1 Perfect Handle Screwdriver, drop forged steel, 6 in. blade.                                     | 1 Starrett's Nail Set.   |
| 1 Can Liquid Glue.  | 1 Steel Cabinet Scraper.   |
| 1 Box Assorted Brads, Small Nails, Tacks, etc.  | 1 Monkey Wrench, 10 in.  |
| 1 Gross Assorted Wood Screws.   | 1 Lakeside Cold Chisel, 1/2 in. full polished.   |
| 100 Assorted Stove Bolts.   | 1 Boxwood Rule, 2 ft. Brass bound.   |
| 1 Spool Soft Steel Wire.  | 1 Carpenters' Pencil.  |
|   | 3 Lakeside socket Firmer Chisels, extra quality, beveled edges, leather tipped handle. One each, 1/4, 1/2, and 1 inch. |
|   | 4 Lakeside Auger Bits, solid center stem, extra quality. One each, 3/8, 1/2, 3/4, and 1 in.                            |

**185B2775**—Chest and Tools, complete..... \$8.45

# OUR DEFIANCE TOOL CHEST

51-PIECE TOOL SET \$14.60



**185B2778**—A complete outfit of High Grade Tools, put up in a strong, hardwood chest, finely finished, with sliding tray, hinged cover, strong lock and handles. Each Tool perfect. A first-class set in every particular. Actual retail value, \$18.00.

The tools are all selected from our regular stock, first-class in every respect. Inside measurements of chest are 31 1/2 x 16 x 9 1/2 in. Shipping weight, 88 lbs.

- |   |                           |                              |
|---|---------------------------|------------------------------|
| 1 Lakeside Hand Saw, 24 in.                     | 1 Ratchet Bit Brace.      | 1 Flat File, 6 in.           |
| 1 Lakeside Rip Saw, 24 in.                      | 1 Nail Set.               | 1 Round File, 6 in.          |
| 1 Small Iron Bench Vise.                        | 1 Compass Saw.            | 1 Iron Block Plane.          |
| 5 Cast Steel Chisels, 1/4, 3/8, 1/2, 3/4, 1 in. | 1 Wood Bottom Jack Plane. | 2 Wood Hand Screw Clamps.    |
| 4 Cast Steel Auger Bits, 3/8, 1/2, 3/4, 1 in.   | 1 Flat Cutting Pliers.    | 1 Taper File, 4 in.          |
| 7 Gimlet Bits.                                  | 1 Pair Compasses.         | 1 Try Square, 6 in.          |
| 1 Counter Sink Bit.                             | 1 Try Square, 8 in.       | 4 File Handles.              |
| 1 Screw Driver Bit.                             | 1 Wrench, 8 in.           | 1 Plumb and Level.           |
| 1 Hollow Handle Awl                             | 1 Carpenters' Pencil.     | 1 Steel Square.              |
| 1 Rule.   | 1 Screw Driver.           | 1 Iron Plumb Bob.            |
|   | 1 Draw Knife, 8 in.       | 1 Carpenters' Pincers, 8 in. |
|   | 1 Claw Hatchet.           | 1 Emery Oil Stone.           |
|   | 1 Steel Hammer.           | 1 Oil Can.                   |
|   | 1 Heavy Mallet.           | 1 Can Glue.                  |

**185B2778**—Price, Chest and Tools, complete..... \$14.60

**185B2779**—Chest without tools. Shipping weight, 50 lbs. 3.50

# OUR ECLIPSE TOOL CHEST

COMPLETE 83-PIECE TOOL SET WITH CARPENTERS' HANDBOOK

\$24.90

Put up in a strong, hardwood chest, sliding trays, hinge cover and lock, finely finished. Just the thing for the mechanic or householder. Every item perfect. Usual retail value, \$30.00 to \$35.00. Note the comprehensive list of tools below.



**185B2782**—A carefully assorted set of tools, all of a standard quality, packed in a handsome and commodious chest, made of selected ash and finely finished. Fitted with two sliding trays, saw rack and substantial lock and end handles. Corners are made with a blind dovetail, making a neat joint and handsome appearance.

The tools are taken from our regular stock, high grade and intended for hard, every-day use. Inside dimensions of chest are 31x16x14 in. Average shipping wt., 126 lbs.

83 Pieces. A complete high grade outfit in every detail, as follows:

- |   |  |                              |                                  |
|---|--|------------------------------|----------------------------------|
| 1 Lakeside Hand Saw, L-100, 26 in.              | 1 Set of 13 Standard Auger Bits, 3/8 to 1 in. in handsome box. | 1 Taper File, 5 in.          | 1 Plumb Bob, Nickel-Plated.      |
| 1 Lakeside Rip Saw, L-8, 26 in.                 | 1 Set Gimlet Bits (8)  | 1 Taper File, 6 in.          | 1 Marking Gauge.                 |
| 1 Back-Saw, 10 in.                              | 1 Counter Sink.  | 1 Morrill Pat. Saw Set.      | 1 Cutting Pliers, nickel-plated. |
| 1 Compass Saw, 10 in.                           | 1 Screw-Driver Bit.  | 1 Draw Knife, 10 in.         | 1 Gas Pliers, 8 in.              |
| 1 Key-Hole Saw.                                 | 1 Iron Bench Vise.   | 1 Screw-Driver, 6 in. blade. | 1 Carpenters' Pincers, 8 in.     |
| 1 Wood Bottom Smooth Plane.                     | 1 Monkey Wrench, 8 in.   | 1 Spoke Shave.               | 1 Divider, 8 in.                 |
| 1 Wood Bottom Jack Plane.                       | 2 Pair Wood Hand Screws.                                       | 1 Lakeside Broad Hatchet.    | 5 File Handles.                  |
| 1 Iron Block Plane.                             | 1 Ratchet Bit Brace.   | 1 Hickory Mallet.            | 1 Emery Oil Stone.               |
| 1 Coping Saw.                                   | 1 Hand Drill (6 drill points).                                 | 1 Plumb and Level.           | 1 Oil Can.                       |
| 1 Hack Saw Frame and Blade.                     | 1 Nail Set.  | 1 Pocket Level.              | 6 Sheets Sand Paper.             |
| 1 Wood Miter Box.                               | 1 Flat File, 6 in.   | 1 Rule.                      | 3 Pieces Carpenters' Chalk.      |
| 11 Lakeside Socket Firmer Chisels, 1/4 to 2 in. | 1 Round File, 6 in.  | 1 Reel and Awl.              | 1 Carpenters' Pencil.            |
|   | 1 Half Round File, 8 in.                                       | 1 Try Square, 6 in.          | 1 Can Glue.                      |
|   |  | 1 Steel Square.              |                                  |

Including one Book Practical Carpentry, with Steel Square Supplement. Cloth bound, 200 pages, 5 1/4 x 7 1/2 in., by Fred F. Hodgson.

**185B2782**—Price, Chest and Tools, complete..... \$24.90

**185B2783**—Chest without tools. Shipping weight, 70 lbs. Each..... 5.35

# OUR PERFECTION TOOL CHEST

The Mechanics' Pride  
A Superb Outfit of the Finest Tools  
CONTAINS PRACTICALLY EVERY TOOL THAT A CARPENTER REQUIRES. ALL OF THE VERY BEST GRADE.

95-PIECE TOOL SET  
OUR PRICE FOR COMPLETE SET \$39.45

Complete with Hodgson's Carpenters' Hand Book

Actual \$60.00 Retail Value



**185B2786**—AN ELEGANT, COMPLETE AND GENEROUS ASSORTMENT OF FIRST QUALITY TOOLS, all taken from our regular stock and selected with a view to supplying practically every item that a mechanic would ordinarily require.

The chest is made of selected ash, filled and varnished, with two sliding trays, substantial lock, and end handles. Made with blind dovetail corners and constructed in a thoroughly workmanlike manner. Inside dimensions of chest, 32x18x16 in.

We include a set of Corrugated Bottom Iron Planes of latest improved pattern. The other items are of equal grade. Shipping weight, 170 lbs.

- |   |   |                                     |  |
|---|---|-------------------------------------|--|
| 1 Lakeside Hand Saw, L-100, 26 in.                              | 1 Iron Bull-Nose Rabbet Plane.                              | 1 Carpenters' Pincers, 8 in.        | 1 Brass Plumb Bob.                     |
| 1 Lakeside Rip Saw, L-100, 26 in.                               | 1 Wood Miter Box.   | 1 Screw-Driver Bit.                 | 1 Marking Gauge, rosewood.             |
| 1 Lakeside Back Saw, 12 in.                                     | 1 Iron Saw Vise.  | 1 Nail Set.                         | 1 Pair Dividers, 8 in.                 |
| 1 Keyhole Saw.  | 12 Socket Firmer Chisels, bevel edge, 3/8 to 2 in.          | 1 Screw-Driver, 8 in. blade.        | 1 Pencil Attachment for Dividers.      |
| 1 Steel Hack - S a w Frame, nickel-plated and blade.            | 13 Auger Bits, 3/8 to 1 in. Jennings' pattern, in wood box. | 1 Screw-Driver, 4 in. blade.        | 2 Hand Screw Clamps.                   |
| 1 Lakeside Iron Smooth Plane, No. 3, 18 in. corrugated bottom.  | 1 Clark's Expansion Bit, 3/8 to 3 in.                       | 1 Adjustable Draw Knife, 8 in.      | 1 Mounted Washita Oil Stone, 6 in.     |
| 1 Lakeside Iron Jack Plane, No. 5, 14 in. corrugated bottom.    | 8 Gimlet Bits.  | 1 Iron Spoke Shave.                 | 1 Oil Can (steel).                     |
| 1 Compass Saw, 12 in.   | 1 Counter Sink.   | 1 Shingling Hatchet.                | 2 Flat Files, 6 in., 10 in.            |
| 1 Lakeside Iron Fore Plane, No. 6, 18 in. corrugated bottom.    | 1 Automatic Hand Drill, with 8 drills.                      | 1 Broad Hatchet.                    | 1 Round File, 6 in.                    |
| 1 Lakeside Iron Jointer Plane, No. 7, 22 in. corrugated bottom. | 1 Ratchet Brace, nickel-plated, ball bearing.               | 1 Extra Forged Nail Hammer.         | 1 Auger Bit File.                      |
| 1 Nickel-plated Block Plane.                                    | 1 Iron Bench Vise, 2 in. jaws.                              | 1 Steel Riveting Hammer.            | 2 Double End Taper Files, 7 in., 9 in. |
|   | 1 Monkey Wrench, 10 in.                                     | 1 Mallet, fibre head.               | 1 File Cleaner.                        |
|   | 1 Coping S a w (12 blades).                                 | 1 Rule, brass bound.                | 3 File Handles.                        |
|   | 1 Pair Flat Pliers.   | 1 Plumb and Level, polished cherry. | 1 Carpenters' Pencil.                  |
|   | 1 Pair Combination Pliers, N. P.                            | 1 Pocket Level.                     | 3 Pieces Carpenters' Chalk.            |
|   |   | 1 Reel and Awl.                     | 1 Chalk Line.                          |
|   |   | 1 Try Square, 7 1/2 in.             | 12 Sheets Sand Paper.                  |
|   |   | 1 Sliding Tee Bevel, 10 in.         | 1 Can Glue.                            |
|   |   | 1 Steel Square.                     |  |

Including 1 Book Practical Carpentry, with Steel Square Supplement. Cloth bound, 200 Pages, 5 1/4 x 7 1/2 in. By Fred T. Hodgson.

**185B2786**—Price, Chest and Tools Complete..... \$39.45

**185B2790**—We can furnish above set of tools packed in our 185B2825 Chest. Shipping weight, 180 lbs. Price complete..... 40.95

**185B2787**—Chest, as illustrated above, without tools. Shipping weight, 71 lbs. Each..... 6.15

# JENNING'S LITTLE WONDER TOOL KIT



**185B2752**—Consists of neatly finished hardwood case with separate tray. The handle on tray goes through cover and serves as a carrying handle. Contains 22 first-class tools. A very convenient outfit for the householder or mechanic, and will give perfect satisfaction with every-day use. Tools are as follows:

- |                            |                                      |                          |                           |
|----------------------------|--------------------------------------|--------------------------|---------------------------|
| 1 Knob handle scratch awl. | 1 Knob handle screwdriver, 2 1/2 in. | 1 Knob handle tack claw. | 1 Knob handle draw shave. |
| 1 Screw-driver, 5 in.      | 1 Small saw.                         | 1 Special brace.         | 2 Auger bits.             |
| 2 Gimlet bits.             | 1 Screw driver bit.                  | 1 Countersink.           | 1 Square-roamer.          |
| 1 Forged steel hammer.     | 1 Block plane.                       | 1 Try square.            | 1 Two-ft. rule.           |

Shipping weight, about 15 pounds. Price, complete..... \$4.75

# CARPENTERS' TOOL CASE SUIT CASE PATTERN \$6.60



**185B2818**—Holds 28 in. saws and full size square. Made of selected, hardwood, with panel sides, handsomely finished. Has brass lock, leather handle with rings for shoulder strap, metal clasps, metal corners and saw rack to hold four saws. Partitioned tray. Space in bottom. Outside measurements: Length, 34 1/4 in.; height, 17 in.; width, 6 in. Inside dimensions of tray: Length, 32 1/2 in.; height, 1 1/2 in.; width, 4 1/2 in. Shipping weight, 32 lbs. \$10.00 retail value. Each..... \$6.60

# SHOULDER TOOL CHESTS

WITH ROUNDED BOTTOM EDGES \$3.35



**185B2831**—Selected chest, nut with metal corners, and end handles. Leather top handle for hand carrying. A good lock and key, and suit case fasteners. Well made throughout. Inside dimensions, 32x8x8 in. Shipping weight, 24 lbs. Each..... \$3.35

# ELECTRICIANS' TOOL CASE



**185B2819**—Made of selected hardwood, nicely finished. With leather handle, suit case lock and fasteners. Widely used by electricians, telephone men, bell hangers and other mechanics who desire a long, narrow tool case of convenient arrangement, durable construction and fine appearance. Outside measurements, 25 1/2 x 6 x 9 1/2 in. Inside measurements, 24 x 5 x 5 1/2 in. Shipping weight, 18 lbs. Each..... \$2.95

# NEW MODEL TOOL CHEST

SIZE, 32x18x18 in. CONTENTS IN FULL \$7.90

VIEW WHEN OPEN



**185B2825**—Made of selected ash, thoroughly seasoned, kiln-dried. The great value of this chest lies in the fact that when the cover is open, all contents are readily accessible, avoiding all rummaging. Made with two drawers in bottom. Saw rack. Good lock, brass drawer pulls, and substantial end handles. All nicely finished and varnished. Inside measurements, 32x18x18 in. Shipping weight, 87 lbs. Each..... \$7.90



41-PIECE TOOL CABINET \$10.95  
USUAL RETAIL VALUE, \$15.00



**185B2748—TOOL CABINET**, made of solid oak, finely finished with strong hinges and lock. We include a wire clip or holder for every tool. Cabinet has a drawer in bottom for nails, screws, etc. The tools are carefully selected for practical use and are strictly high grade in every respect. Designed to meet the demand for a good outfit such as is required by a mechanic or a householder. The cabinet can be hung on the wall or carried about by the top handle. Outside dimensions, 30x18x8 1/2 in. Ship. wt., 56 lbs.

- 41 PIECES. A FINE, COMPLETE ASSORTMENT**
- |  |                                  |
|--|----------------------------------|
| 1 Hand Saw, 22 in.                       | 3 Gimlet Bits.                   |
| 1 Keyhole Saw.                           | 1 Counter Sink.                  |
| 1 Coping Saw (12 blades).                | 1 Screw Driver Bit.              |
| 1 Steel Claw Hammer.                     | 1 Nail Set.                      |
| 1 Riveting Hammer.                       | 1 Tack Claw.                     |
| 1 Iron Block Plane.                      | 1 Hollow Tool Handle (10 tools). |
| 1 Bit Brace, 8 in., nickel-plated.       | 1 Saw File and Handle.           |
| 1 Iron Spoke Shave.                      | 1 Rule, 2 ft.                    |
| 1 Try Square, 6 in.                      | 1 Monkey Wrench, 8 in.           |
| 1 Marking Gauge.                         | 1 Pocket Level.                  |
| 1 Combination Pliers.                    | 1 Hack Saw and Blade.            |
| 1 Gas Pliers.                            | 1 Hand Drill (6 drills).         |
| 1 Divider.                               | 1 Carpenter's Pincers.           |
| 1 Screw Driver, 4 in. blade.             | 1 Oil Stone.                     |
| 1 Screw Driver, 6 in. blade.             | 1 Oil Can.                       |
| 3 Chisels, 1/4, 1/2, 3/4 in. bevel edge. | 6 Sheets Sand Paper.             |
| 3 Auger Bits, 1/4, 1/2, 3/4 in.          | 1 Lot Assorted Nails.            |
- Price, Oak Cabinet and Tools, complete. Ship Wt., 56 lbs. .... **\$10.95**

## FINE TOOLS IN HANDY CABINETS

**50-PIECE TOOL CABINET \$17.45**

INCLUDING CARPENTERS' HANDBOOK



**185B2744** — A fine, complete set of high grade tools, with a fine oak cabinet with double doors and large drawer in bottom for nails, screws, etc. Fitted with strong hinges and lock. Occupies but little space and provides a convenient and proper place for every tool. Outside dimensions of cabinet, 30x25x8 1/2 in.

The tools are all strictly high grade, selected for practical everyday use, and of the style and quality as demanded by the best mechanics. With the right tool for almost any kind of carpenter or repair work that you may be called upon to perform. Shipping weight, 83 lbs. Retail value \$25.

- |                                     |  |                                  |                                |
|-------------------------------------|--|----------------------------------|--------------------------------|
| 1 Hand-Saw, 22 in.                  | 1 Auger Bit, 1/4 in.                     | 1 Screw-Driver Bit.              | 1 Nail Set.                    |
| 1 Rip-Saw, 22 in.                   | 3 Gimlet Bits.                           | 1 Oil Stone.                     | 1 Tack Claw.                   |
| 1 Claw Hammer.                      | 3 Chisels, 1/4, 1/2, 3/4 in. bevel edge. | 1 Gas Pliers.                    | 1 Hack Saw Frame and Blade.    |
| 1 Riveting Hammer.                  | 1 Marking Gauge.                         | 1 Oil Can.                       | 1 Hand Drill (6 drills).       |
| 1 Claw Hatchet.                     | 1 Screw-Driver, 4 in. blade.             | 1 Divider.                       | 1 Monkey Wrench.               |
| 1 Iron Block Plane.                 | 1 Screw-Driver, 6 in. blade.             | 1 Saw File and Handle.           | 1 Pocket Level, nickel-plated. |
| 1 Wood Bottom Jack Plane.           | 1 Try Square, 6 in.                      | 1 Flat File and Handle.          | 1 Reamer Bit.                  |
| 1 Compass Saw.                      | 1 Rule, 2 ft.                            | 1 Round File and Handle.         | 1 Glass Cutter.                |
| 1 Ratchet Brace, 10 in., Nickel Pl. | 1 Counter Sink Bit.                      | 1 Hollow Tool Handle (10 tools). | 1 Tinners' Snips.              |
| 1 Iron Spoke Shave.                 | 1 Combination Pliers.                    |                                  | 1 Carpenter's Pincers.         |

**185B2744—Oak Cabinet and Tools, Complete . . . \$17.45**

Including 1 book, Practical Carpentry, with Steel Square Supplement. Cloth bound, 200 pages, size 5 1/2 x 7 1/2 in. By Fred T. Hodgson.

**JENNINGS' TOOL CASE**  
SUIT CASE PATTERN **\$12.10**



**185B2750**—Consists of an oak case, trimmed with metal corners and suit-case fasteners. The bit brace acts as a handle for the case. Easy to carry. Outside dimensions, when closed, 21x14x4 in. Contains 40 first quality tools, as follows:

- COMBINATION SET OF SAWS**, with take-down handle and six blades: 1 hand saw blade, 18 in.; 1 rip saw, 18 in.; 1 pruning saw, 18 in.; 1 metal cutting saw, 14 in.; 1 compass saw, 14 in.; and 1 keyhole saw blade, 12 in.; all fitting the one handle.
- |                            |                             |
|----------------------------|-----------------------------|
| 7 Auger Bits.              | 1 Nail Set.                 |
| 1 Gimlet Bit.              | 1 Screw Driver Bit.         |
| 3 Chisels.                 | 1 Drawing Knife.            |
| 1 Drawing Knife.           | 1 Nail Hammer.              |
| 2 Screw Drivers.           | 1 Tack Hammer.              |
| 1 Rule.                    | 1 Ratchet Brace.            |
| 1 Pair Combination Pliers. | 1 Mitre Square.             |
| 1 Glass Cutter.            | 1 Tool Handle and 10 tools. |
| 1 Counter Sink.            |                             |

The saws are packed in a canvas case, and all of the tools are first quality. Carpenters, and Householders as well, will find this a very desirable and convenient set. Shipping wt., 26 lbs. Usual retail value, \$15.00. Price, case and tools, complete . . . **\$12.10**



### HOME TOOL CABINET—28 Pieces

**185B2740**—Handsome solid oak wall cabinet, finely finished. With strong hinges and lock, and a drawer in bottom for nails, screws, etc. The tools are all high grade. A very popular outfit. Outside dimensions: height, 24 in.; width, 16 in.; depth, 5 1/2 in. Shipping weight, 36 lbs. Retail value, \$10.00 and up. Contains the following first quality tools:

- |                                 |  |
|---------------------------------|--|
| 1 Hand Saw, 18 in.              | 2 Gimlet Bits.                                       |
| 1 Steel Hammer.                 | 1 Counter Sink.                                      |
| 1 Iron Block Plane.             | 1 Screw Driver Bit.                                  |
| 1 Bit Brace, nickel-plated.     | 1 Rule, 2 ft.  |
| 1 Iron Spoke Shave.             | 1 Oil Can.   |
| 1 Try Square, 6 in.             | 1 Tack Claw.   |
| 1 Marking Gauge.                | 1 Hollow Tool Handle (10 tools).                     |
| 1 Combination Pliers.           | 1 Nail Set.  |
| 1 Flat Pliers.                  | 1 Saw File and Handle.                               |
| 1 Divider.                      | 1 Can Glue.  |
| 1 Screw Driver, 6 in. blade.    | 1 Lot Assorted Nails, Tacks, etc., in bottom drawer. |
| 3 Auger Bits, 1/4, 1/2, 3/4 in. |  |
- 185B2740—Price, complete . . . \$7.95**

### OUR STAR TOOL SET

**185B2768**—The tools in this set are all of a good Standard Grade, selected with a view to furnishing the most necessary tools for use about the house and farm. Packed in a plain pine box. Shipping weight, 17 1/2 lbs. The following standard tools:

- |                            |                                 |
|----------------------------|---------------------------------|
| 1 Steel Shingling Hatchet. | 1 Monkey Wrench, 8 in.          |
| 1 Steel Hammer.            | 1 Pair Flat Cutting Pliers.     |
| 3 Gimlet Bits.             | 1 Screwdriver, 6 in. blade.     |
| 1 Cold Chisel.             | 3 Auger Bits, 1/4, 1/2, 3/4 in. |
| 1 Iron Block Plane.        | 1 Flat File and Handle.         |
| 1 Bit Brace.               |                                 |
| 1 Chisel, 1 1/2 in.        |                                 |
| 1 Combination Hand Saw.    |                                 |

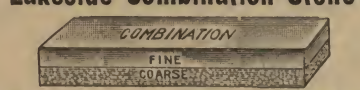
Price, Complete . . . **\$2.75**  
A Convincing Value at a Remarkably Low Price. Each Tool Will Give Good Service.



## OIL STONES FOR EDGE TOOLS

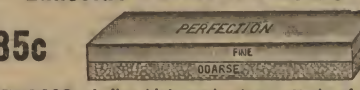
**RUBY WASHITA**  
RUBY WASHITA  
Lucky Washita Oil stones are reddish white of a smooth, uniform texture, and free from grit. Suitable for all kinds of tools.  
**85B2420**—Size, about 7x2 1/2 in. Average weight, 1 lb. . . . **35c**  
**85B2421**—Size, about 8 1/2 x 2 1/2 in. Average weight, 1 1/2 lbs. . . . **54c**  
**NO. 1 WHITE WASHITA**  
Perfectly white, free from grit, and are excellent quick-cutting stones of a medium grit for general work.  
**85B2424**—Size, about 5 x 2 1/2 in. Average weight, 14 oz. . . . **25c**  
**85B2425**—Size, about 8 x 2 1/2 in. Average weight, 1 1/2 lbs. . . . **40c**  
**MOUNTED NO. 1 WHITE WASHITA**  
Fitted in a handsome hardwood covered box. Smooth even texture.  
**85B2430**—Size stone, about 6 in. x 2 in. Average weight, 1 lb. . . . **40c**  
**85B2431**—Size stone, about 6 in. x 2 in. Average weight, 1 1/2 lbs. . . . **45c**  
**85B2432**—Size stone, about 7 in. x 2 in. Average weight, 1 1/2 lbs. . . . **50c**  
**85B2433**—Size stone, about 8 in. x 2 in. Average weight, 1 1/2 lbs. . . . **55c**  
**SOFT ARKANSAS SLIPS**  
**85B2434**—No. 1 White Washita Gouge Slips, with round edges. Lengths vary from 3 1/2 to 5 in. Weight, 2 to 6 oz. Each . . . **15c**  
**85B2435**—Extra Washita Gouge Slips, with round edges. Smooth grit. Lengths vary from 3 to 5 in. Wt., 2 to 7 oz. Each . . . **20c**

### Lakeside Combination Stone



Made with two grits. Coarse side for sharpening, fine side for finishing. Reddish brown color. (Composed of emery and corundum). Unexcelled for putting a fine edge on all kinds of tools. Packed in a neat pasteboard box.  
**85B2464**—Size, 6x2x1 in. Wt., 1 lb. . . . **30c**  
**85B2465**—Size, 8x2x1 in. Wt., 1 1/2 lbs. . . . **40c**

### Lakeside Perfection Stone



**85B2468**—A fine high grade stone. Made of an electric abrasive, hard and sharp as a diamond, rapid cutting and of a uniform grit. Has a coarse face for dull tools and the other side a fine grit for putting on a keen, sharp edge. Gives best results when used with a thin non-gumming oil. Size, 8x2x1 in. Average wt., 1 1/4 lbs. . . . **85c**

### MOUNTED NO. 1 WHITE WASHITA



Fitted in a handsome hardwood covered box. Smooth even texture.  
**85B2430**—Size stone, about 6 in. x 2 in. Average weight, 1 lb. . . . **40c**  
**85B2431**—Size stone, about 6 in. x 2 in. Average weight, 1 1/2 lbs. . . . **45c**  
**85B2432**—Size stone, about 7 in. x 2 in. Average weight, 1 1/2 lbs. . . . **50c**  
**85B2433**—Size stone, about 8 in. x 2 in. Average weight, 1 1/2 lbs. . . . **55c**

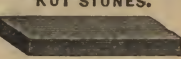
### SOFT ARKANSAS STONES

Fine grained, smooth cutting stone, for wood carvers, pattern makers, etc. Suitable for the finest tools. Imparts a keen, smooth edge.  
**85B2440**—Size, about 6x2 in. (Not mounted). Average wt., 1 lb. . . . **90c**  
**85B2441**—Size, about 8x2 in. (Not mounted). Average weight, 1 1/2 lbs. . . . **\$1.35**

### AXE STONES.

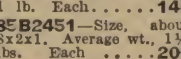
**85B2460**—Emery Axe Stone. Produces keen, fine edge. Size, about 2 1/2 x 2 1/2 in. Medium grit. Wt., 6 oz. . . . **80c**  
**85B2461**—Autokut Stone. Well adapted axe bits. Medium grit. Size, about 4x1 1/2 x 3/4 in. Wt., 8 oz. Each . . . **50c**

### UNMOUNTED AUTO-KUT STONES.



A good stone for general purposes. Can be used with oil or with water.  
**85B2450**—Size, about 1 1/2 x 2 1/2 in. Average wt., 1 lb. . . . **14c**  
**85B2451**—Size, about 8x2x1 in. Average wt., 1 1/4 lbs. . . . **20c**

### MOUNTED AUTO-KUT STONES.



Mounted in polished wood covered box.  
**85B2453**—Size stone, about 5 1/2 x 1 1/2 in. Average wt., 1 lb. . . . **20c**  
**85B2454**—Size stone, about 6 1/2 x 1 1/2 in. Average wt., 1 1/4 lbs. . . . **24c**  
**85B2455**—Size stone, about 8x1 1/2 x 1 1/2 in. Average wt., 1 1/2 lbs. . . . **30c**

### EMERY OIL STONES.



**85B2458**—With two grits, one side fine, the other side medium. A fast cutter, suitable for all kinds of tools. Size, 8x2x1 in. Average wt., 1 1/4 lbs. Each . . . **18c**

## TOOL ROLLS FOR MACHINISTS OR MOTORISTS

High Grade  
Auto Tool Roll  
Compact and  
Complete



Very Convenient.  
Contains 24  
Well Chosen  
Tools of the  
Highest Quality

**85B2760**—Tool Kit containing 24 high grade tools. Every tool first class in every respect. Packed complete in canvas roll as shown. Tools as follows:

- |  |   |   |                                    |
|--|---|---|------------------------------------|
| 1 Perfect handle machinist's hammer.           | 5 drop forged steel wrenches taking from 3/8 to 1 in. | 1 round file, 6 in., with handle.                       | 1 prick punch.                     |
| 1 hand punch, 10 in.                           | 1 soldering copper.                                   | 1 combination pliers, drop forged steel, nickel plated. | 1 center punch.                    |
| 1 Stillson pipe wrench, 10 in.                 | 1 flat mill file, 8 in., with handle.                 | 1 machine punch.  | 1 drop forged cold chisel, 1/2 in. |
| 2 Perfect handle screwdrivers, 4 in. and 8 in. | 1 flat mill file, 6 in., with handle.                 | 1 cotterpin extractor.                                  |                                    |
- Weight, about 12 pounds. Per set, complete . . . **\$5.25**



### Handy Tool Rolls

LOW IN PRICE BUT OF GOOD QUALITY. ALL THE TOOLS ARE FORGED STEEL

### Low Priced Tool Roll

**85B2756**—Our Bargain Tool Roll. For automobile or motorcycle users. Its low price and useful high grade tools have made this tool roll popular. Contains ten good quality, forged steel, oil tempered, black finished tools, such as are most commonly used. Three forged double-end wrenches, with openings 3/8 to 1 1/4 in.; one forged monkey wrench, 8 in.; one forged machinist's ball peen hammer; one forged all steel screwdriver, square shank, blade, width 3/4 in., length, 5 in.; one 8 in. flat mill file with handle; one forged slip joint plier, 6 in.; one cold chisel, 3/4 in.; one hand punch, 3/4 in. point. Weight, about 5 1/2 lbs. In canvas roll. Complete . . . **\$1.45**

### High Grade Tool Rolls

**85B2754**—Consists of 10 first quality tools, in a heavy canvas roll with leather straps. Set comprises 1 Perfect handle wrench, 8 in.; 3 drop forged steel wrenches, with openings 3/8 in. to 1 1/4 in.; 1 Perfect handle screwdriver, total length, 8 1/2 in.; 1 pair combination pliers, nickel plated, size 6 in.; 1 Perfect handle machinist's hammer, length 10 in.; 1 polished cold chisel, size 3/4 in.; 1 cotterpin extractor; 1 hand punch. Weight, about 5 1/2 lbs. Tool Kit, complete . . . **\$2.75**  
**85B2755**—Same assortment with lower priced tools. 1 Standard wrench, 8 in.; 3 forged wrenches with openings 3/8 to 1 1/4 in.; 1 screwdriver, 8 in.; 1 pair combination pliers, nickel plated, size 6 in.; 1 machinist's hammer, size 8 in.; 1 cold chisel, 3/4 in.; 1 cotterpin extractor; 1 hand punch. Weight, about 5 1/2 lbs. To 1 Kit, complete . . . **\$2.10**



## TASTEFUL, ARTISTIC

Our Artistic Hardware is not expensive, and gives a finishing touch of refinement to the home. As the cost of hardware used in the construction of a house is a small item when compared with the entire cost of the building, it is generally considered advantageous to use the better grades of locks and trimmings. Comparison will show our prices to be extremely low. Quality and Finish considered. The knobs, escutcheons and all the trimmings are finely and attractively finished, all bolts are strong and easy working.

## BUILDERS' HARDWARE

Our low prices make it possible for you to select Up-to-Date Hardware of elegant appearance for much less money than you would usually pay. In order to simplify as much as possible the ordering of Builders' Hardware in desired finishes, we have designated the various finishes with letters, from A to E for solid bronze, and from G to P for plated iron and steel. A harmonious, tasteful and elegant appearance is easily obtained by selecting all the trimmings of the same finish, whether all bronze, part bronze and part steel, or all steel.

## ECONOMICAL, DURABLE

The solid bronze goods, naturally are the most durable and satisfactory, especially in the case of lock sets, and present the richest appearance, as the plating takes best on a solid bronze surface. Much of our iron and wrought steel hardware is also very ornamental and finished to resemble the solid bronze hardware, the chief difference being in the danger of rust to steel hardware when exposed. We do not recommend any but solid bronze finishes for outside work.

# DESCRIPTION OF FINISHES

## REGAL DESIGN RICH AND DIGNIFIED



**65c** Turn Door Bell, Solid Bronze Front, 4x2 1/2 in. and 3/4 in. nickel-plated bronze gong, ready to attach. Weight, 1 1/2 lbs. **85B2974-C** Finish. Each... **65c**

**80c** Inside Door Lock, Mortise Lock, 3 3/4 x 3 1/2 in. 1 pair 2 1/2 in. knobs, 1 steel bit key, 2 long Escutcheons, 7 1/2 x 2 1/2 in. With screws. Reversible. C finish has a non-rusting Solid Bronze Trimmings, while the L finish has plated steel trimmings. Excellent values. An artistic and tasteful design. Every part of the lock is well made. Retail prices are at least one-half higher. Wt., 2 lbs. **85B2966-C** Finish. Price, Each... **80c**

**85B2962-C** Finish. Price, Each... **\$1.75**

**85B2964-L** Finish. Price, Each... **\$1.10**

**85B2968-L** Finish. Price, Each... **38c**

**85B2973** Double. Price, Each... **\$1.35**

**85B2972-L** Single. Price, Each... **85c**

**85B2976-C** Finish. Price, Each... **40c**

**85B2942-C** Finish. Price, Each... **\$4.75**

**85B2943-E** Finish. Price, Each... **4.75**

**85B2947-P** Finish. Price, Each... **1.10**

**85B2948-C** Finish. Price, Each... **80c**

**85B2949-E** Finish. Price, Each... **80c**

**85B2950-L** Finish. Price, Each... **38c**

**85B2951-P** Finish. Price, Each... **1.10**

**85B2952-C** Finish. Price, Each... **\$1.15**

**85B2953-L** Finish. Price, Each... **\$1.75**

**85B2954-L** Finish. Price, Each... **\$1.15**

**85B2955-P** Finish. Price, Each... **\$1.75**

**85B2956-L** Finish. Price, Each... **80c**

**85B2957-P** Finish. Price, Each... **80c**

**85B2958-L** Finish. Price, Each... **80c**

**85B2959-P** Finish. Price, Each... **80c**

**85B2960-L** Finish. Price, Each... **80c**

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**85B2990-L** Finish. Price, Each... **80c**

**85B2991-P** Finish. Price, Each... **80c**

**85B2992-L** Finish. Price, Each... **80c**

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**85B2998-L** Finish. Price, Each... **80c**

**85B2999-P** Finish. Price, Each... **80c**

**85B3000-L** Finish. Price, Each... **80c**

**85B3001-P** Finish. Price, Each... **80c**

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**85B3184-L** Finish. Price, Each... **80c**

**85B3185-P** Finish. Price, Each... **80c**

**85B3186-L** Finish. Price, Each... **80c**

**85B3187-P** Finish. Price, Each... **80c**

**85B3188-L** Finish. Price, Each... **80c**

**85B3189-P** Finish. Price, Each... **80c**

**85B3190-L** Finish. Price, Each... **80c**

**85B3191-P** Finish. Price, Each... **80c**

**85B3192-L** Finish. Price, Each... **80c**

**85B3193-P** Finish. Price, Each... **80c**

**85B3194-L** Finish. Price, Each... **80c**

**85B3195-P** Finish. Price, Each... **80c**

**85B3196-L** Finish. Price, Each... **80c**

**85B3197-P** Finish. Price, Each... **80c**

**85B3198-L** Finish. Price, Each... **80c**

**85B3199-P** Finish. Price, Each... **80c**

**85B3200-L** Finish. Price, Each... **80c**

**85B3201-P** Finish. Price, Each... **80c**

**85B3202-L** Finish. Price, Each... **80c**

**85B3203-P** Finish. Price, Each... **80c**

**85B3204-L** Finish. Price, Each... **80c**

**85B3205-P** Finish. Price, Each... **80c**

**85B3206-L** Finish. Price, Each... **80c**

**85B3207-P** Finish. Price, Each... **80c**

**85B3208-L** Finish. Price, Each... **80c**

**85B3209-P** Finish. Price, Each... **80c**

**85B3210-L** Finish. Price, Each... **80c**

**85B3211-P** Finish. Price, Each... **80c**

**85B3212-L** Finish. Price, Each... **80c**

**85B3213-P** Finish. Price, Each... **80c**

**85B3214-L** Finish. Price, Each... **80c**

**85B3215-P** Finish. Price, Each... **80c**

**85B3216-L** Finish. Price, Each... **80c**

**85B3217-P** Finish. Price, Each... **80c**

**85B3218-L** Finish. Price, Each... **80c**

**85B3219-P** Finish. Price, Each... **80c**

**85B3220-L** Finish. Price, Each... **80c**

**85B3221-P** Finish. Price, Each... **80c**

**85B3222-L** Finish. Price, Each... **80c**

**85B3223-P** Finish. Price, Each... **80c**

**85B3224-L** Finish. Price, Each... **80c**

**85B3225-P** Finish. Price, Each... **80c**

**85B3226-L** Finish. Price, Each... **80c**

**85B3227-P** Finish. Price, Each... **80c**

**85B3228-L** Finish. Price, Each... **80c**

**85B3229-P** Finish. Price, Each... **80c**

**85B3230-L** Finish. Price, Each... **80c**

**85B3231-P** Finish. Price, Each... **80c**

**85B3232-L** Finish. Price, Each... **80c**

**85B3233-P** Finish. Price, Each... **80c**

**85B3234-L** Finish. Price, Each... **80c**

**85B3235-P** Finish. Price, Each... **80c**

**85B3236-L** Finish. Price, Each... **80c**

**85B3237-P** Finish. Price, Each... **80c**

**85B3238-L** Finish. Price, Each... **80c**

**85B3239-P** Finish. Price, Each... **80c**

**85B3240-L** Finish. Price, Each... **80c**

**85B3241-P** Finish. Price, Each... **80c**

**85B3242-L** Finish. Price, Each... **80c**

**85B3243-P** Finish. Price, Each... **80c**

**85B3244-L** Finish. Price, Each... **80c**

**85B3245-P** Finish. Price, Each... **80c**

**85B3246-L** Finish. Price, Each... **80c**

**85B3247-P** Finish. Price, Each... **80c**

**85B3248-L** Finish. Price, Each... **80c**

**85B3249-P** Finish. Price, Each... **80c**

**85B3250-L** Finish. Price, Each... **80c**

**85B3251-P** Finish. Price, Each... **80c**

**85B3252-L** Finish. Price, Each... **80c**

**85B3253-P** Finish. Price, Each... **80c**

**85B3254-L** Finish. Price, Each... **80c**

**85B3255-P** Finish. Price, Each... **80c**

**85B3256-L** Finish. Price, Each... **80c**

**85B3257-P** Finish. Price, Each... **80c**

**85B3258-L** Finish. Price, Each... **80c**

**85B3259-P** Finish. Price, Each... **80c**

**85B3260-L** Finish. Price, Each... **80c**

**85B3261-P** Finish. Price, Each... **80c**

**85B3262-L** Finish. Price, Each... **80c**

**85B3263-P** Finish. Price, Each... **80c**

**85B3264-L** Finish. Price, Each... **80c**

**85B3265-P** Finish. Price, Each... **80c**

**85B3266-L** Finish. Price, Each... **80c**

**85B3267-P** Finish. Price, Each... **80c**

**85B3268-L** Finish. Price, Each... **80c**

**85B3269-P** Finish. Price, Each... **80c**

**85B3270-L** Finish. Price, Each... **80c**

**85B3271-P** Finish. Price, Each... **80c**

**85B3272-L** Finish. Price, Each... **80c**

**85B3273-P** Finish. Price, Each... **80c**

**85B3274-L** Finish. Price, Each... **80c**

**85B3275-P** Finish. Price, Each... **80c**

**85B3276-L** Finish. Price, Each... **80c**

**85B3277-P** Finish. Price, Each... **80c**

**85B3278-L** Finish. Price, Each... **80c**

**85B3279-P** Finish. Price, Each... **80c**

**85B3280-L** Finish. Price, Each... **80c**

**85B3281-P** Finish. Price, Each... **80c**

**85B3282-L** Finish. Price, Each... **80c**

**85B3283-P** Finish. Price, Each... **80c**

**85B3284-L** Finish. Price, Each... **80c**

**85B3**



**GLENDALÉ DESIGN**      **VERY GRACEFUL**



Dutchess and Strike  
 mouse. With pull. A  
 thoroughly well  
 made lock.  
 Handsome and  
 well propor-  
 tioned, and of  
 latest design.  
 Weight, 3½ lbs.  
**85B3070 - C**  
 Cfin.  
 Single \$1.15  
**85B3070½ - C**  
 Double \$1.75

**85B3071 - L**  
 Cfin.  
 Single 85c  
**85B3071½ - L**  
 Double \$1.40

Bell. A  
 ornament to  
 any door.  
**Note -**  
 Plate is of  
 solid bronze;  
 therefore  
 will not  
 rust; the  
 gong is of  
 bell - bronze,  
 and has a  
 fine sound.  
 Wt., 10 oz.  
**85B3072 - C**  
 Cfin.  
 Each. 65c

has 4 Escutcheons and mortise strike with pull. A thoroughly well made lock. Average wt., 2% lbs.	HIGH QUALITY AND VERY LOW PRICES OF OUR TOOLS
<b>85B287C - C</b> fin. Single <b>\$1.15</b>	have brought us, in addition to our enormous Domestic Business an immense Export trade.
<b>85B287T - T</b> Double <b>1.75</b>	We ship to all parts of the world.
<b>85B287S - E</b> fin. Single <b>\$1.15</b>	
<b>85B2879 - 9</b> Double <b>1.75</b>	
<b>85B2880 - L</b> fin. Single <b>.85c</b>	
<b>85B2881 - 1</b> Double <b>\$1.40</b>	

# HUBBARD DESIGN A STANDARD STYLE



values. A thorough  
made  
set with easy  
and strong  
The design is  
ame and well  
tioned and of  
est style. Our  
are far below  
Weight, 2%

**857-C** f n  
Each... **.80c**

**858-E** f n  
Each... **.80c**

**859-L** f n  
Each... **.38c**

moisture str  
with pull. A  
oughly well m  
lock. Average w  
2% lbs.

**85B2860** f n. Single **\$1.10**

**85B2861** Double **\$1.75**

**85B2862** f n. Single **\$1.10**

**85B2863** Double **\$1.10**

**85B2864** f n. Single **.80**

**85B2865** Double **\$1.10**

and mortise  
with pull.  
rough-  
made lock  
will give  
satisfac-  
It has  
an escut-  
than the  
hanging in-  
lock set.  
set, 3 1/2 lbs.

that of the retail  
price), and neat  
appearance of this  
set make it desir-  
able for many pur-  
poses, where the  
jet or black knobs  
would be suitable.  
The lock, front,  
bolts, and escutche-  
ons are plated  
steel, but make a  
satisfactory set.  
Weight, 2 lbs.

**083**  
sh. **\$1.15**

**084**  
sh. **\$1.75**

**58B3090** — H  
finish.  
Per doz. **..\$3.10**

Each **.... 28c**

## RIVERVIEW DESIGN VERY ATTRACTIVE



strike with pug.  
 A 2 1/2 lb. bag  
 wt., 2 1/2 lbs. — C  
 85B2892 — C  
 finish.  
 Double . . . \$1.15  
 85B2893 — E  
 Double . . . \$1.75  
 85B2894 — E  
 fin. Single . \$1.15  
 85B2895 — E  
 Double . . . \$1.75  
 85B2896 — L  
 fin. Single . 85c  
 85B2897 — L  
 Double . . . \$1.40

A thoroughly well	tool grinder
made look. Average	to sharpen
wt., 2 1/2 lbs.	your knives,
<b>85B3118 - C fin.</b>	blades,
Single . . . <b>\$1.15</b>	chisels,
<b>85B3119 -</b>	hatchets,
Double . . . <b>\$1.75</b>	axes, etc.
<b>85B3120 - E fin</b>	Our tool
Single . . . <b>\$1.15</b>	grinder
<b>85B3121 -</b>	will cut the
Double . . . <b>\$1.75</b>	hardest steel
<b>85B3122 - L fin.</b>	very rapidly
Single . . . <b>.85c</b>	without
<b>85B3123 -</b>	drawing the
Double . . . <b>\$1.40</b>	temper. See
	Index.

## NICKEL-PLATED BATHROOM SET

**58262978**—Bathroom s'de has plain nickel plated, bronze escutcheon, size 6x2, in., with bolt in. The other side will be the same. Outside knob and lock to match any of our line. Inside door handle. Mortise lock. 3 1/2 by 3 1/4 in. Nickel plated bronze face, bolts and strike. Smooth, 2 1/4 in. nickel plated with key for outside and nickel plated screws.

**Note:** Be sure to give name of our design that you want outside knob and escutcheon to match. Complete, with knobs and two escutcheons as described. Wt., complete, 2 1/2 lbs. Per set



### STORE DOOR HANDLES

(With Cylinder Lock)

Set comprises: One mortise cylinder lock, size, 5 1/2 x 3 1/2 in., as shown in center of this row; lock is reversible; three keys; two solid bronze handles and two solid bronze plates, size 1 1/2 x 3 1/2 in. A fine, high grade lock set. Wt., 6 lbs.

**85B3150**—Genuine Polished Bronze (A-finish).  
Per set ..... \$5.50

**85B3151**—Same set in C-finish, antique copper, polished.  
Per set ..... \$5.50

**85B3152**—Same set in E-finish, dull lemon brass.  
Per set ..... \$5.50

### STORE DOOR HANDLES

(With Flat Key Lock)

Set comprises: One mortise lock (see separate descriptions); two solid bronze handles, with large genuine bronze plates, 3 1/2 x 4 1/2 in., and two flat keys. Wt., 4 1/2 lbs.

**85B3154**—Polished Antique Copper (C-finish) on genuine bronze.  
Per set ..... \$3.25

**85B3155**—Same set in E-finish. Dull lemon brass. Set ..... \$3.25

**85B3158**—Same set in wrought steel, L-finish. Antique copper, polished.  
Per set ..... \$1.75

### STORE DOOR HANDLE

(With Flat Key Lock)

**85B3164**—Wroughtsteel (L-finish), antique copper, polished. Set comprises: One mortise lock (see separate description); two heavy handles, with large plates, about 3 x 12 in. Weight, 3 1/2 lbs. Size of lock, about 4 1/2 x 3 in. Set ..... \$1.65

### MORTISE STORE DOOR LOCK

As included with 85B3154 to 85B3166. Store Door Handles. Size of case, about 4 1/2 x 3 1/2 in. Flat front, with bronze bolts, reversible, for right or left hand. Easy spring latch bolt, and two nickel plated flat steel keys.

### STORE DOOR HANDLE

(With Flat Key Lock)

**85B3160**—Cast iron (L-finish) Antique copper, polished. Set comprises: one mortise store door lock (see separate description in center of this row). Two heavy handles and plates. Size, about 8 x 15 in. Reversible. Wt., 5 1/2 lbs. Per set ..... \$2.45

### STORE DOOR HANDLE

(With Flat Key Lock)

**85B3166**—Cast iron plate and handle. (H finish.) Bronze plated. Black background with polished raised surface. Set comprises: One mortise lock (see separate description in center of this row), two handles with plate. Size, about 2 1/2 x 12 in. Wt., 3 1/2 lbs. Per set ..... \$1.75


### STORE DOOR HANDLE

(H-Finish). Oblique handle. Iron, bronze plated. Polished, raised surface. For right or left hand doors. Size of plate, 2 1/2 x 3 1/2 in. With screws. Wt., 1 1/2 lbs. Per set ..... \$3.50

## RIM KNOB LOCKS      NIGHT LATCHES AND MORTISE LOCKS      LATCHES AND DOOR PULLS

### RIM KNOB LOCK


Cast Iron



**85B3180**—Reversible Upright Rim Lock. Size, 3 3/4 x 3 1/2 in. With iron bolts. Tinned Key. Japanned escutcheons. With screws. Weight, 1 1/2 lbs. Without knobs. Doz. .... \$1.10  
Each ..... .10

### RIM KNOB LOCK


Cast Iron



**85B3182**—Reversible Upright Rim Lock. Size, 3 3/4 x 3 1/2 in. Brass Bolts. With stop and nickel plated brass key. Japanned escutcheons. With screws. Weight, 1 1/2 lbs. Without knobs. Doz. .... \$2.70  
Each ..... .24

### RIM KNOB LOCK


Wrought Steel



**85B3185**—Reversible, Wrought Steel, Upright Rim Lock. Size, 4 x 3 in. Light, but very strong. Iron bolt and Tinned key. With escutcheons and screws. Wt., 13 oz. (Without knobs.) Doz. .... \$2.05  
Each ..... .18

### STORE DOOR LOCK


Cast Iron



**85B3204**—Rim Dead Lock. Size, 4 1/2 x 3 in. Has heavy iron bolt, 2 nickel plated folding steel keys. Complete with screws and japanned escutcheons. Weight, 1 1/2 lbs. Each ..... \$5.00

### RIM KNOB LOCK


Wrought Steel



**85B3186**—Reversible Wrought Steel Horizontal Rim Lock. Size, 4 1/2 x 3 1/2 in. Iron bolts, nickel plated steel key, with screws. Japanned escutcheons. Weight, 15 oz. (Without knobs.) Each ..... \$0.24  
Per doz. .... 2.70


### RIM KNOB LOCK

Cast Iron




**85B3190**—Reversible Horizontal Rim Lock. Size, 4 1/2 x 3 1/2 in. Iron bolts, nickel plated steel key, with screws. Japanned escutcheons. Wt., 20 oz. (Without knobs.) Doz. .... \$1.15  
Each ..... .10

### MORTISE KNOB LOCK




**85B3212**—Reversible Mortise Lock. Size, 3 1/2 x 3 1/2 in. Iron front, bolt, and striking plate, tinned key. Wt., 1 lb. (Without knobs.) Each ..... \$0.12  
Per doz. .... 1.35

### MORTISE KNOB LOCK



**85B3214**—Reversible Mortise Lock. Size, 3 1/2 x 3 1/2 in. With brass front, brass bolts, nickel plated steel key. Weight, 1 1/2 lbs. (Without knobs.) Each ..... \$0.25  
Per doz. .... 2.50


### MORTISE KNOB LOCK



**85B3216**—Reversible Mortise Lock. Size, 3 1/2 x 3 1/2 in. With polished iron front, bolts and strike-plate, with steel key. Weight, 1 lb. (Without knobs.) Each ..... \$0.17  
Per doz. .... 1.85

### RIM KNOB LATCH

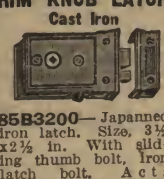
Cast Iron



**85B3196**—Horizontal Rim Knob Latch. Japanned. Size, 3 1/2 x 2 1/2 in. Iron bolt, with screws. Acts merely as a latch, and cannot be used with a key. Used on small inside doors where the security of key lock is not desired. Weight, 10 oz. (Without knobs.) Each ..... 9c  
Per doz. .... 98c

### RIM KNOB LATCH


Cast Iron



**85B3200**—Japanned Iron Latch. Size, 3 1/2 x 2 1/2 in. With sliding thumb bolt. Iron latch bolt. Acts merely as a latch, and cannot be used with a key. With screws. Weight, 3/4 lb. (Without knobs.) Each ..... \$0.11  
Per doz. .... 1.20


### RIM DEAD LOCK

Cast Iron




**85B3194**—Horizontal Rim Dead Lock. Size, 2 x 3 in. Iron tinned key. Acts merely as a lock and cannot be used with knobs. With screws and japanned escutcheon. Wt., 8 oz. Doz. .... 90c  
Each ..... 9c

### MORTISE KNOB LOCK




**85B3218**—Reversible Wrought Steel Mortise Lock. Size, 3 1/2 x 3 1/2 in. Brass front, bolts and striking plate, nickel plated steel key. Weight, 1 1/2 lbs. (Without knobs.) Each ..... \$0.35  
Per doz. .... 3.90

### MORTISE KNOB LATCH



**85B3220**—Reversible Iron Mortise Knob Latch. Size, 1 1/2 x 3 1/2 in. Iron front, bolt and strike. Acts merely as a latch and cannot be used with key. Wt., 5 oz. (Without knobs.) Each ..... 7c  
Per doz. .... 70c

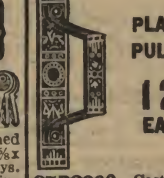
### MORTISE KNOB LATCH



**85B3221**—Reversible Mortise Knob Latch. Size, 1 1/2 x 3 1/2 in. Brass front and strike-plate; bronze bolt, otherwise same as the preceding. Cannot be used with a key. Weight, 5 oz. (Without knobs.) Each ..... \$0.12  
Per doz. .... 1.40

### PLATED PULL


12c EACH



**85B3260**—Cast Iron Door Pull. Bronze plated. L finish. Length, 7 1/2 in. With screws. Weight, 7 oz. Each ..... 12c

### STEEL THUMB LATCH

8c EACH




Wrought steel, japanned. With screws. Wt., each, 5 to 10 oz.

**85B3278**—Length, 6 1/2 in. Each ..... 8c  
Doz. .... 75c

**85B3279**—Length, 7 1/2 in. Each ..... \$0.10  
Doz. .... 1.10

### IRON THUMB LATCH

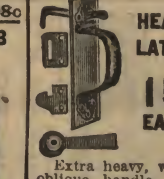
8c EACH



**85B3272**—Heavy Cast Iron Thumb Latch. Japanned black. (Without screws.) Length, 7 1/2 in. Weight, 15 oz. Per set ..... 8c  
Per doz. sets ..... 90c

### HEAVY LATCH

15c EACH




Extra heavy, with oblique handle. Size of plate, 2 1/2 x 8 1/2 in. Wt., 2 1/2 lbs.

**85B3274**—Japanned finish. Per set ..... 15c

**85B3275**—Antique Copper finish. Per set ..... 25c

### HEAVY STEEL LATCH


43c



**85B3280**—Wrought steel, Japanned. Handle, 11 inches. Bar, 12 in. Wt., 2 1/2 lbs. With screws. Each ..... 43c

### IRON THUMB LATCH


7c EACH



**85B3270**—Ornamental. Iron Thumb Latch. Cast iron, dark bronze finish. With screws. Length of handle, 6 1/2 in. Weight, set, 7 oz. Per set ..... 7c  
Doz. sets ..... 70c

### LIGHT PULL


8c Dozen



**85B3264**—Japanned Steel Wire Pulls for screen doors, etc. May be used as a lift for screens or light windows. Weight, each, 1 oz. Length, 4 in. Per doz. .... 8c

### PLATED PULL

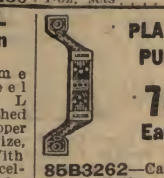
20c Dozen



**85B3265**—Handsome wrought steel Door Pull. L finish. Polished antique finish. Size, 4 1/2 in. With screws. Excellent value for the money. Weight, each 1 oz. Each ..... 2c  
Per doz. .... 20c


### PLATED PULL

7c Each



**85B3262**—Cast Iron Door Pull. Bronze plated. H finish. Length, 6 1/2 in. With screws. Wt., 3 oz. Each ..... 7c

### RIM DOOR KNOBS




With 5/8 in. spindle and japanned rose. No screws furnished. (Use 1/2 in. No. 6.) Weight, pair, 3/4 lb.

**85B3230**—Brown Mineral Knobs. Doz. pair... 70c Pair... 6c

**85B3232**—White Porcelain Knobs. Doz. pair... 90c Pair... 9c

**85B3234**—Black Glazed Knobs. Doz. pair... 90c Pair... 9c

### ATTRACTIVE GLASS KNOBS



**85B3295**—For use with mortise locks. Plain, 2 1/2 in. Colonial glass knobs. Patent non-rattling adjustment for thickness of door. With 2 in. lemon brass door plates. With screws. Add greatly to the appearance of any door and are extensively used for bedroom doors. Wt., 1 1/4 lbs. Per pair ..... 78c

Door Push Plates. Made of wrought metal, either of genuine bronze or plated steel. Size, 2 1/2 x 10 in., with neat, rounded edges. Packed with screws to match. This design will harmonize well with most any kind of lock set. Weight, each, about 6 oz.

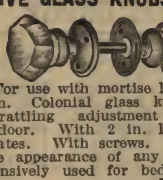
**85B3172**—C finish. Real Bronze. Antique copper plated. Each ..... 30c

**85B3173**—E finish. Real Bronze. Lemon brass color. Each ..... 30c

**85B3174**—A finish. Real Bronze. Polished surface. Each ..... 30c

**85B3175**—L finish. Stamped Steel. Antique Copper plated. Each ..... 15c

### MORTISE DOOR KNOBS



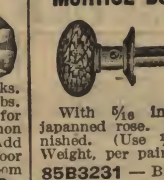
With 5/8 in. spindle and japanned rose. No screws furnished. (Use 1/2 in. No. 6.) Weight, per pair, 14 oz.

**85B3231**—Brown Mineral Knobs. Doz. pair... 70c Pair... 6c

**85B3233**—White Porcelain Knobs. Doz. pair... 90c Pair... 9c


**85B3235**—Black Glazed Knobs. Doz. pair... 90c Pair... 9c

### BRONZE MORTISE KNOBS WITH ORNAMENTAL ROSE



**85B3240**—B finish (polished surface, black background). Knobs, 2 1/2 in., with 5/8 in. spindle, for mortise locks. With screws. Weight, per pair, 9 oz. Pair ..... 45c

### DOUBLE ACTING FLOOR HINGES



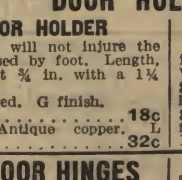
Has a rubber tip and will not injure the floor. Locked and released by foot. Length, 4 1/2 in.; diameter of bolt 3/4 in. with a 1 1/4 in. drop. Wt., 8 oz.

**85B3362**—Amber bronzed, G finish. Each ..... 18c

**85B3363**—Polished. Antique copper, L finish. Each ..... 32c

### DOOR HOLDERS

#### LITTLE GIANT DOOR HOLDER




Locked and released by foot. Will not injure polished floors. Case, 1 1/2 x 4 in. Wt., 14 oz.

**85B3360**—Amber bronzed, G finish. Each ..... 25c

**85B3361**—Antique copper finish, L finish. Each ..... 32c

#### STEEL PARLOR DOOR HANGERS



Ball bearing steel hangers with vulcanized fibre wheels. Run easily. Are practically noiseless. Easy to install and adjust. Cannot jump the track. Directions with each set. Prices include the hollow steel track, stops floor guide and screws.


**185B3708**—For single doors. Give size.

Opening, ft.	3	4	5	6
Ship. wt., lbs.	9 3/4	11 1/4	12 1/4	13 1/4
Per set	\$1.65	\$1.85	\$2.13	\$2.53

**185B3710**—For double doors. Give size.

Opening, ft.	4	5	6	7
Ship. wt., lbs.	22 1/2	24 1/2	26 1/2	28 1/2
Per set	\$3.15	\$3.22	\$3.24	\$3.47

### ECLIPSE DOOR SPRINGS




Tuscan bronzed. For right or left hand doors. Tension is adjustable. Directions included.

**85B3720**—For ordinary inside or light outside doors. Weight, 4 1/2 lbs. Each ..... 90c

**85B3721**—For heavy outside doors. Weight, 5 1/2 lbs. Each ..... \$1.20

### ECLIPSE DOOR CHECK

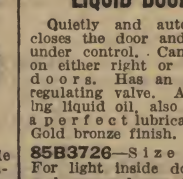


With detachable feet. For door casing. Adjustable for light or heavy draft. Lacquered brown.

**85B3722**—For ordinary doors. Diam. of cylinder, 1 1/2 in. Wt., 2 1/2 lbs. Each ..... \$1.20

**85B3723**—For heavy doors. Diam. of cylinder, 2 1/2 in. Wt., 5 lbs. Each ..... \$1.60

### LIQUID DOOR CHECK AND SPRING



Quietly and automatically closes the door and keeps it under control. Can be used on either right or left hand doors. Has an automatic regulating valve. Anti-freezing liquid oil, also serves as a perfect lubricant. Gold bronze finish.


**85B3726**—Size A. For light inside doors and screen doors. Weight, 6 lbs. Each ..... \$2.60

**85B3727**—Size B. For medium inside doors. Weight, 8 1/2 lbs. Each ..... \$3.10

**85B3728**—Size C. For heavy inside doors, and outside doors up to 2 ft. 8 in. by 1 1/4 in. Weight, 10 1/2 lbs. Each ..... \$3.65

**85B3729**—Size D. For heavy doors, up to 3 ft. by 7 ft. by 2 in. Weight, 13 1/2 lbs. Each ..... \$4.40


### FLOOR SPRING HINGES BALL BEARING



Floor Spring Hinges, double acting, to swing both ways. Ball Bearing. Each hinge is carefully inspected and adjusted to the proper tension. The adjustment can be changed without removing the door. Easy acting and noiseless. Price includes bottom hinge, top socket and screws. Wt., 7 to 12 lbs. Give size and finish.

For Door Thickness, Inches	85B3674 Ivory Black Finish Each	85B3675 K Finish Bronze Plated Copper Each	85B3676 L Finish Antique Copper Each
1 1/4 to 1 1/2	\$1.05	\$1.23	\$1.30
1 1/2 to 2	1.30	1.45	1.55
2 to 2 1/2	1.65	1.75	1.90

### STEEL PARLOR DOOR HANGERS EASY RUNNING AND NOISELESS



Easy to put up, quickly adjusted. Steel hanger. Steel wheels with hard fibre tread. Runs on brass bushings. Requires no oiling. Impossible to derail. No cutting necessary on door. Hardwood rail in heavy steel channel. Notched 6 and 12 in. from ends. Desired lengths obtainable by sawing wood and breaking steel. With Hangers, Screws, Roller Guides, Stops, and Track.

**185B3702**—Double Door Set. With 14-ft. track. Shipping weight, 20 lbs. Set ..... \$3.00

**185B3704**—Single Door Set. With 8-ft. track. Shipping weight, 9 1/2 lbs. Set ..... \$1.50



# WINDOW HARDWARE, PULLEYS AND SASH CORD

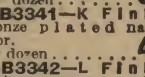
## SASH FASTENERS

**Cast Iron**  
  
 85B3330—G finish. Plain bronze iron, brown color. Wt., doz., 3 lbs. Per dozen ..... 35c  
 85B3332—L finish. Iron, antique copper finish. Per dozen ..... 42c  
 85B3334—M finish. Iron, antique copper, dull sand finish. Per dozen ..... 50c  
 85B3336—C finish. Solid bronze, antique copper finish, polished. Wt., each, 4 oz. Per dozen ..... \$0.25  
 Each ..... 2.75


## SASH FASTENERS

**Wrought Steel**  
  
 Solid wrought steel. Will not break. Draws the top and bottom sash tightly together. Wt., doz., 3 lbs. Per dozen ..... 35c  
 85B3340—G finish. Amber bronzed. Per dozen ..... 42c  
 85B3342—L finish. Antique copper plated. Per dozen ..... 43c


## SASH FASTENERS

**Cast Iron**  
  
 85B3344—G finish. Bronze plated natural color. Per dozen ..... 42c  
 85B3346—G finish. Bronze plated natural color. Per dozen ..... 43c


## SASH FASTENERS

**Cast Iron**  
  
 85B3348—G finish. Ornamental iron, bronzed bell top. Per dozen ..... 52c

## SASH FASTENERS

**Cast Iron**  
  
 85B3350—G finish. Bronze plated. Per dozen ..... 40c

## SASH FASTENERS

**Cast Iron**  
  
 85B3350—G finish. Bronze plated. Per dozen ..... 40c

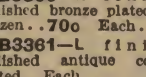
## SASH FASTENERS

**Cast Iron**  
  
 85B3352—L finish. Cast iron. Antique copper finish. Wt., per doz., 3 lbs. Per dozen ..... 48c

## SASH FASTENERS

**Cast Iron**  
  
 85B3360—K finish. Polished bronze plated. Dozen. 70c Each. 60c

## SASH FASTENERS

**Cast Iron**  
  
 85B3361—L finish. Polished antique copper plated. Each ..... 60c Dozen ..... 70c

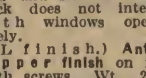
## SASH FASTENERS

**Cast Iron**  
  
 85B3364—Window can be left open at top, bottom or both top and bottom. Lock does not interfere with windows opening freely. (L finish.) Antique copper finish on iron. With screws. Wt., 2 oz. Doz. \$1.45 Each. 13c

## SASH FASTENERS

**Cast Iron**  
  
 85B3366—Window can be left open at top, bottom or both top and bottom. Lock does not interfere with windows opening freely. (L finish.) Antique copper finish on iron. With screws. Wt., 2 oz. Doz. \$1.45 Each. 13c

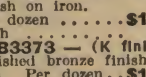
## SASH FASTENERS

**Cast Iron**  
  
 85B3368—G finish. Ornamental iron, bronzed bell top. Per dozen ..... 52c

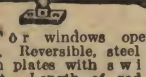
## CASEMENT WINDOW FASTENERS

**Cast Iron**  
  
 Reversible for right or left hand. Size, 1 1/2 x 1 1/2 in. With screws. Weight, each, 4 oz. 85B3372—(L finish.) Polished antique copper finish on iron. Per dozen ..... \$1.10 Each ..... 10c

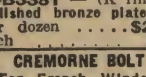
## CASEMENT WINDOW FASTENERS

**Cast Iron**  
  
 85B3373—(K finish.) Polished bronze finish on iron. Per dozen ..... \$1.10 Each ..... 10c

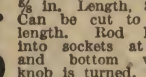
## CASEMENT WINDOW FASTENERS

**Cast Iron**  
  
 For windows opening out. Reversible, steel bar, iron plates with a wavy post. Length of rod, 12 in. With screws. Weight, each, 14 oz. 85B3380—(L finish.) Polished antique copper finish. Per doz. \$2.80 Each ..... 25c


## CASEMENT WINDOW FASTENERS

**Cast Iron**  
  
 85B3381—(K finish.) Polished bronze plated. Per dozen ..... \$2.80 Each ..... 25c

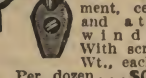
## CASEMENT WINDOW FASTENERS

**Cast Iron**  
  
 85B3384—Polished antique copper finish. Per set ..... \$2.25

## CASEMENT WINDOW FASTENERS

**Cast Iron**  
  
 85B3385—Bright bronze plated. Per set ..... \$2.25

## CASEMENT WINDOW FASTENERS

**Cast Iron**  
  
 85B3370—Japanned cast iron. For case- ment, cellar, and attic windows. With screws. Wt., each, 2 oz. Per dozen ..... \$0.25 Per gross ..... 2.80

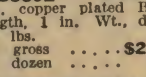
## WINDOW SPRINGS

**Cast Iron**  
  
 85B3390—Malleable iron, tinned, with zinc case. Length, 3 1/2 inches. Wt., doz., 10 oz. Per gross ..... \$1.50 Per dozen ..... 14c

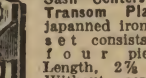
## WINDOW SPRINGS

**Cast Iron**  
  
 To screw into the window frame and fit a 1/4-in. hole. 85B3392—Malleable iron, copper plated. Length, 1 in. Wt., doz., 1 1/4 lbs. Per gross ..... \$2.00 Per dozen ..... 19c

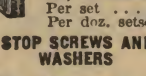
## WINDOW SPRINGS

**Cast Iron**  
  
 85B3395—Sash Centers or Transom Plates. Japanned iron. A set consists of four pieces. Length, 2 1/4 in. Without screws. (U.S. No. 8 screws.) Weight, set, 8 ounces. Per set ..... 5c Per doz. sets 45c

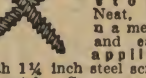
## WINDOW SPRINGS

**Cast Iron**  
  
 85B3404—(L finish.) Polished antique copper finish. Per gross ..... 50c

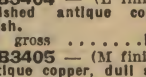
## WINDOW SPRINGS

**Cast Iron**  
  
 85B3405—(M finish.) Antique copper, dull sand finish. Per gross ..... 55c

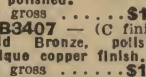
## WINDOW SPRINGS

**Cast Iron**  
  
 85B3406—(A finish.) Solid bronze, natural color, polished. Per gross ..... \$1.25


## WINDOW SPRINGS

**Cast Iron**  
  
 85B3407—(C finish.) Solid bronze, polished. Antique copper finish. Per gross ..... \$1.35

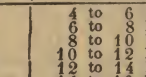
## WINDOW SPRINGS

**Cast Iron**  
  
 85B3408—(G finish.) Solid bronze, polished. Antique copper finish. Per gross ..... \$1.35

## SPRING SASH BALANCES

**Cast Iron**  
  
 85B3571—Improved balances with round face plate. One size mortise fits all sizes of bal- ances. Can be applied to old houses where weights cannot be used. They require no pocket or box frame; easily put in and operate noiselessly. Have steel tension spring and rustless metal tap. A set consists of four balances, enough for two sash, or one complete window. Average weight of set, 6 lbs. Give size.

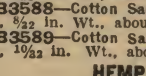
## SPRING SASH BALANCES

**Cast Iron**  
  
 Size Wt. of each sash glazed Length of tape, in. Per set  
 6 4 to 6 lbs. 30 \$0.85  
 8 6 to 8 lbs. 30 .88  
 10 8 to 10 lbs. 30 .95  
 12 10 to 12 lbs. 46 1.05  
 14 12 to 14 lbs. 46 1.10  
 16 14 to 16 lbs. 46 1.15  
 18 16 to 18 lbs. 46 1.35  
 20 18 to 20 lbs. 46 1.40  
 22 20 to 23 lbs. 46 1.55

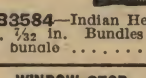
## SPRING SASH BALANCES

**Cast Iron**  
  
 85B3572—With square ends. Polished 2 in. wheel. Weight, dozen, 4 1/4 lbs. Per dozen ..... 22c

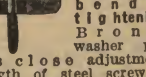
## SPRING SASH BALANCES

**Cast Iron**  
  
 85B3574—Self-Mark- ing. Inserted by boring 5 holes. (Centers marked by edge.) 2 in. Polished wheel. Wt., doz., 4 1/4 lbs. Per doz. .... 22c

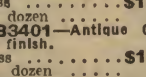
## SPRING SASH BALANCES

**Cast Iron**  
  
 85B3575—Heavy sash pulley. Antique copper finished face, 2 1/4 in. Polished wheel. Noiseless running. Wt., doz., 7 1/2 lbs. Each ..... 10c Doz. \$1.10

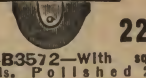
## SPRING SASH BALANCES

**Cast Iron**  
  
 85B3576—Self-Mark- ing. Inserted by boring 5 holes. (Centers marked by edge.) 2 in. Polished wheel. Wt., doz., 4 1/4 lbs. Per doz. .... 22c

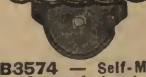
## SPRING SASH BALANCES

**Cast Iron**  
  
 85B3577—Cotton Sash Cord. No. 7. Diam- eter, 1/2 in. Wt., about 1 1/2 lbs. Per bundle ..... 50c

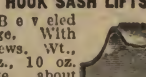
## IRON SASH PULLEY

**Cast Iron**  
  
 85B3572—With square ends. Polished 2 in. wheel. Weight, dozen, 4 1/4 lbs. Per dozen ..... 22c

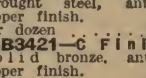
## IRON SASH PULLEY

**Cast Iron**  
  
 85B3574—Self-Mark- ing. Inserted by boring 5 holes. (Centers marked by edge.) 2 in. Polished wheel. Wt., doz., 4 1/4 lbs. Per doz. .... 22c

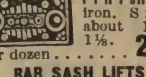
## IRON SASH PULLEY

**Cast Iron**  
  
 85B3575—Heavy sash pulley. Antique copper finished face, 2 1/4 in. Polished wheel. Noiseless running. Wt., doz., 7 1/2 lbs. Each ..... 10c Doz. \$1.10

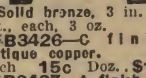
## IRON SASH PULLEY

**Cast Iron**  
  
 85B3576—Self-Mark- ing. Inserted by boring 5 holes. (Centers marked by edge.) 2 in. Polished wheel. Wt., doz., 4 1/4 lbs. Per doz. .... 22c

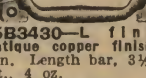
## IRON SASH PULLEY

**Cast Iron**  
  
 85B3577—Cotton Sash Cord. No. 7. Diam- eter, 1/2 in. Wt., about 1 1/2 lbs. Per bundle ..... 50c

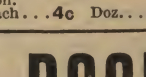
## IRON SASH PULLEY

**Cast Iron**  
  
 85B3578—Heavy sash pulley. Antique copper finished face, 2 1/4 in. Polished wheel. Noiseless running. Wt., doz., 7 1/2 lbs. Each ..... 10c Doz. \$1.10


## IRON SASH PULLEY

**Cast Iron**  
  
 85B3579—Cotton Sash Cord. No. 10. Diam- eter, 3/4 in. Wt., about 3 lbs. Per bundle ..... 75c

## IRON SASH PULLEY

**Cast Iron**  
  
 85B3580—Cotton Sash Cord. No. 10. Diam- eter, 3/4 in. Wt., about 3 lbs. Per bundle ..... 75c

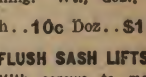
## STEEL SASH PULLEYS

**Cast Iron**  
  
 85B3572—With square ends. Polished 2 in. wheel. Weight, dozen, 4 1/4 lbs. Per dozen ..... 22c

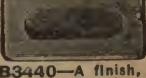
## STEEL SASH PULLEYS

**Cast Iron**  
  
 85B3574—Self-Mark- ing. Inserted by boring 5 holes. (Centers marked by edge.) 2 in. Polished wheel. Wt., doz., 4 1/4 lbs. Per doz. .... 22c

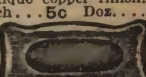
## STEEL SASH PULLEYS

**Cast Iron**  
  
 85B3575—Heavy sash pulley. Antique copper finished face, 2 1/4 in. Polished wheel. Noiseless running. Wt., doz., 7 1/2 lbs. Each ..... 10c Doz. \$1.10

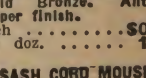
## STEEL SASH PULLEYS

**Cast Iron**  
  
 85B3576—Self-Mark- ing. Inserted by boring 5 holes. (Centers marked by edge.) 2 in. Polished wheel. Wt., doz., 4 1/4 lbs. Per doz. .... 22c

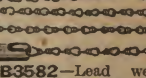
## STEEL SASH PULLEYS

**Cast Iron**  
  
 85B3577—Cotton Sash Cord. No. 7. Diam- eter, 1/2 in. Wt., about 1 1/2 lbs. Per bundle ..... 50c

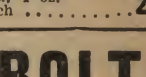
## STEEL SASH PULLEYS

**Cast Iron**  
  
 85B3578—Heavy sash pulley. Antique copper finished face, 2 1/4 in. Polished wheel. Noiseless running. Wt., doz., 7 1/2 lbs. Each ..... 10c Doz. \$1.10

## STEEL SASH PULLEYS

**Cast Iron**  
  
 85B3579—Cotton Sash Cord. No. 10. Diam- eter, 3/4 in. Wt., about 3 lbs. Per bundle ..... 75c

## STEEL SASH PULLEYS

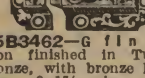
**Cast Iron**  
  
 85B3580—Cotton Sash Cord. No. 10. Diam- eter, 3/4 in. Wt., about 3 lbs. Per bundle ..... 75c

# CUPBOARD CATCHES, DRAWER PULLS AND DOOR BOLTS

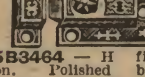
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3460—L finish. Wrought steel, antique copper finish. Size, 2 1/2 x 1 1/2 in. With screws. Wt., 2 oz. Each ..... 55c

## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3462—G finish. Iron finished in Tuscan bronze, with bronze knob. Size, 3 1/2 x 1 1/2 in. With screws. Wt., 3 oz. Each ..... 4c Per dozen ..... 43c

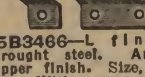
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3464—H finish. Iron. Polished bronze surface. Black back-ground. With screws. Size, 2 1/2 x 1 1/2 in. Wt., each, 4 oz. Each ..... 7c Per doz. .... 75c

## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3466—L finish. Wrought steel. Antique copper finish. Size, 2 1/2 x 2 1/4 in. With screws. Wt., 4 oz. Each ..... 8c Per dozen ..... 90c

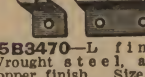
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3467—A finish. Solid bronze. Polished. Size, 2 1/2 x 1 1/2 in. With screws. Each ..... \$0.22 Per dozen ..... 2.50

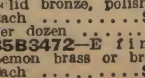
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3470—L finish. Wrought steel, antique copper finish. Size, 2 1/2 x 2 1/4 in. With screws. Wt., 4 oz. Each ..... 8c Per dozen ..... 90c


## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3471—A finish. Solid bronze, polished. Each ..... \$0.22 Per dozen ..... 2.50

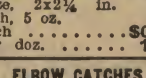
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3472—E finish. Lemon brass or bronze. Each ..... \$0.22 Per dozen ..... 2.50

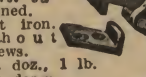
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3474—L finish. Iron. Antique copper finish. With screws. Size, 2 1/2 x 1 1/2 in. Wt., each, 5 oz. Each ..... \$0.12 Per doz. .... 1.30


## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3480—For inside of china closet and cup- board doors. Japanned. Cast iron. With out screws. Wt., 1 lb. Per dozen ..... 22c

## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3484—For holding doors open. Japanned cast iron. With out screws. Wt., doz., 4 1/2 lbs. Per dozen ..... 45c

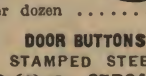
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3486—Japanned steel. (Not iron.) 1 1/2 in. Without screws. Wt. gross, 3 lbs. Per gross ..... 28c

## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3490—Bronzed steel. Each ..... 17c

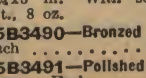
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3491—Polished Cast Brass. Each ..... 34c

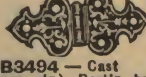
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3492—A finish. Old copper. Each ..... 60c

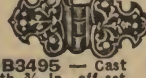
## CUPBOARD CATCHES

**Cast Iron**  
  
 85B3493—E finish. Old copper. Each ..... 60c

## REFRIGERATOR HINGES

**Cast Iron**  
  
 85B3494—Cast iron. (Brass pin) Bronze finish. With screws. Size, 2 1/2 x 5 in. Wt., pair, 14 oz. Per pair ..... 15c

## REFRIGERATOR HINGES

**Cast Iron**  
  
 85B3495—Cast iron. (Brass pin) Bronze finish. With screws. Size, 2 1/2 x 5 in. Wt., pair, 14 oz. Per pair ..... 15c

## REFRIGERATOR HINGES

**Cast Iron**  
  
 85B3496—Wrought steel. Corrugated. Bronze plated. Size, 2 1/2 x 5 in. With screws. Wt., pair, 10 oz. Per pair ..... \$0.20 Per doz. pair ..... 2.20

## REFRIGERATOR HINGES



# DOOR BUTTS AND SMALL HINGES

## PLATED STEEL DOOR BUTTS

Loose Pin. Smooth surface. Two finishes. Both same price. With screws.

**85B3600**—Antique copper.

**85B3602**—Lemon brass.

Size in.	Wt. pr. oz.	Doz. prs.	Per pr.
2 x 2	5	12	\$1.15
2 1/2 x 2 1/2	5	12	1.25
3 x 3	10	6	1.35
3 1/2 x 3 1/2	10	6	1.40
4 x 4	20	3	1.90



### HALF MORTISE STEEL BUTTS

One half is screwed on surface of door. Reversible. With screws. Two finishes. Both same price. **85B3614**—Antique copper. **85B3616**—Lemon brass.

Size in.	Wt. pair	Per pair	Doz. pair
3	1 lb.	20c	\$2.20
3 1/2	1 1/2 lbs.	23c	2.60
4	2 lbs.	29c	3.20



### LIGHT LOOSE PIN BUTTS

**85B3625**—Wrought Steel Butts (L finish). Antique copper finish. For cabinet work, china closets, doors, etc. Wt. pair, 4 and 6 oz., with screws.

Size, open	Per doz.	Per pair
2 x 2	\$1.10	10c
2 1/2 x 2 1/2	1.20	12c



### NARROW STEEL BUTTS

Revealed Edges. **85B3630**—Wrought Pol. Antique copper. Fast joint. With screws. Wt., pair, 4 to 6 oz. Length, 2 in. Pair, 73c. Doz. pair, 7.30. Length, 2 1/2 in. Doz. pairs, .80c. Per pair, .9c. Doz. pairs, .88c.



### PLAIN WROUGHT BUTTS

**85B3632**—Wrought steel reversible butts, with planished surface. (Without screws.) Weight, pair, 1/2 to 1 1/2 lbs. Give size.

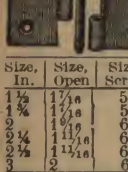
Size Open	Size Screws	Per doz.	Per pair
3 x 2 1/2	No. 10	5c	\$0.52
3 x 3	No. 10	6c	.58
3 1/2 x 3 1/2	No. 11	8c	.80
4 x 4	No. 14	12c	1.04
4 1/2 x 4 1/2	No. 19	12c	1.30



### LIGHT NARROW BUTTS

**85B3634**—Plain Wrought Steel. Loose pin. Without screws. Wt., pair, 1 to 5 oz. Give size.

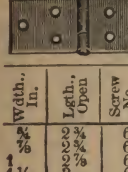
Size, in.	Size, Open	Size, Screw	Per doz.	Per pr.
1 1/2	1 1/2	5	22c	2c
1 3/4	1 3/4	5	25c	3c
2	2	6	27c	3c
2 1/4	2 1/4	6	30c	4c
2 1/2	2 1/2	6	45c	4c



### WROUGHT STEEL BACK FLAPS

**85B3638**—Without screws. Wt., pair 2 to 8 oz. Give size.

Width, in.	Length, in.	Screw No.	Doz. prs.	Per pr.
3	4	6	22c	3c
3 1/2	4 1/2	6	23c	3c
4	5	6	27c	3c
4 1/2	5 1/2	6	30c	4c
5	6	6	52c	5c



### WROUGHT STEEL BACK FLAPS

**85B3638**—Without screws. Wt., pair 2 to 8 oz. Give size.

Width, in.	Length, in.	Screw No.	Doz. prs.	Per pr.
3	4	6	22c	3c
3 1/2	4 1/2	6	23c	3c
4	5	6	27c	3c
4 1/2	5 1/2	6	30c	4c
5	6	6	52c	5c

## EXTRA QUALITY STEEL BUTTS

Highly finished. Extra polished. Loose pin. Two finishes. Both same price. With screws.

**85B3605**—Antique copper.

**85B3607**—Lemon brass.

Size in.	Wt. pr. oz.	Doz. prs.	Per pr.
2 x 2	5	12	\$2.25
2 1/2 x 2 1/2	10	6	2.80
3 x 3	10	6	3.00
3 1/2 x 3 1/2	20	3	3.45
4 x 4	45	3	5.30



### HALF MORTISE STEEL BUTTS

Reversible. With screws. Two finishes. Both same price. **85B3618**—Antique copper. **85B3620**—Dull Lemon brass.

Size in.	Weight Pair	Per Pair	Dozen Pair
3 in.	14 oz.	23c	\$2.60
3 1/2 in.	20 oz.	25c	2.80
4 in.	28 oz.	32c	3.60



### NARROW STEEL BUTTS

**85B3636**—Plain Wrought Steel Butts, fast joint. Without screws. Wt., pair, 1 to 5 oz. Give size.

Size	Per Pr.	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5
Doz. Prs.	10c	12c	16c	20c	24c	28c	32c	36c	40c	44c
Per doz. prs.	1.00	1.20	1.60	2.00	2.40	2.80	3.20	3.60	4.00	4.40



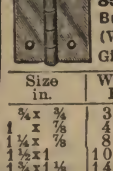
### LAUNDRY TUB HINGES

**85B3640**—Galvanized Wrought Steel, with brass pins. With screws. Wt., pair, 4 and 8 oz. Give size. Length of joint, in. 1 1/2. Per pair, .50 to .80. Per doz. pairs, 1.05 to 1.45.



### CHEST HINGES

**85B3642**—Wrought Steel, (Without screws.) Wt., pair, 5 and 9 oz. Give size. Size, 1 1/2 in. 2 in. Per pair, .40c. Per doz. pairs, .40c. 57c.



### WROUGHT BRASS BUTTS

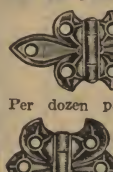
**85B3645**—Brass Butts with fast joint. (Without screws.) Give size.

Size in.	Wt. pair	Per pair	Per doz. pairs
3 x 3 1/2	3 oz.	2c	\$0.15
3 x 4	4 oz.	2c	.18
3 1/2 x 4 1/2	8 oz.	3c	.23
4 x 5	10 oz.	3c	.28
4 1/2 x 5 1/2	14 oz.	4c	.36
5 x 6	1 lb.	5c	.44
5 1/2 x 6 1/2	1 1/4 lbs.	7c	.50
6 x 7	1 3/4 lbs.	12c	1.40



### ORNAMENTAL SURFACE HINGES

L Finish. Antique copper plated steel. Wt., pair, 3 oz. With screws. **85B3650**—Size, 3 1/2 in. Per pair, .9c. Per doz. pairs, .95c.



### ORNAMENTAL SURFACE HINGES

L Finish. Antique copper plated steel. Wt., pair, 3 oz. With screws. **85B3651**—Antique Copper Plated Steel. 3 1/2 x 1 1/2 in. Per pair, .9c. Per doz. pairs, .95c.

## JAPANNED STEEL DOOR BUTTS

Butts

**85B3608**—Wrought steel. Black japanned. Ball tips. Loose pin. Packed complete. With screws to match.

Size in.	Wt. pr.	Per Pair	Doz. Pairs
2 1/2 x 2 1/2	8 oz.	9c	\$1.05
3 x 3	12 oz.	11c	1.20
3 1/2 x 3 1/2	20 oz.	11c	1.28
4 x 4	3 1/2 lb.	13c	2.00
4 1/2 x 4 1/2	5 1/2 lb.	23c	2.95



### BALL BEARING STEEL BUTTS

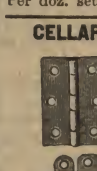
Make heavy doors swing easily. Reversible. Two finishes. Both same price. With screws. **85B3610**—Antique copper. **85B3612**—Dull Lemon brass.

Size in.	Weight pair	Per pair	Per doz. sets
4 x 4	1 1/2	64c	
4 1/2 x 4 1/2	2 1/4	70c	
5 x 5	3	78c	



### CELLAR WINDOW SETS

**85B3663**—Consisting of one pair 2 1/2 in. steel butts, one cellar window fastener, and one 2 1/2 in. wire hook and eye, all japanned to prevent rust. Packed with screws. Wt. set 8 oz. Per set, .85c. Per doz. sets, .85c.



### CELLAR WINDOW SETS


Consisting of one pair, 2 1/2 in. steel butts, two 2 1/2 in. steel bolts, and one 2 1/2 in. wide hook and eye. Complete with screws. Wt., set, 10 oz. **85B3660**—Black Japanned. Per doz. sets, .85c. **85B3661**—Galvanized. Per doz. sets, .85c.



### SINGLE-ACTING SPRING HINGES

**85B3670**—Swing one way. Reversible. Adjustable spring. (Without screws.) Black japanned steel. Wt., pair, 1 1/2 to 3 1/2 lbs. Size, Thickness, Wt. Per in. of door, in. per pr. Per pair

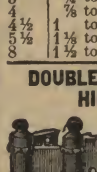
Size, Thickness, Wt. Per in. of door, in. per pr.	Per pair
3 1/2 x 1/2	\$0.40
4 x 1/2	.55
4 1/2 x 1/2	.65
5 x 1/2	.90
5 1/2 x 1/2	1.20



### DOUBLE-ACTING SPRING HINGES

**85B3671**—Swing both ways. Has a adjustable covered tension spring. Easily applied and substantially constructed. Black japanned steel. (Without screws.) Give size.

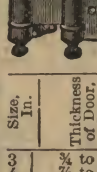
Size, in.	Thickness of Door, in.	Wt. Pair, lbs.	Per Pair
3 1/2	3/4 to 1	2 1/2	\$0.78
4	1 to 1 1/4	3 1/2	1.00
4 1/2	1 1/4 to 1 3/4	4 1/2	1.68
5	1 3/4 to 2	5 1/2	2.95



### DOUBLE-ACTING SPRING HINGES

**85B3671**—Swing both ways. Has a adjustable covered tension spring. Easily applied and substantially constructed. Black japanned steel. (Without screws.) Give size.

Size, in.	Thickness of Door, in.	Wt. Pair, lbs.	Per Pair
3 1/2	3/4 to 1	2 1/2	\$0.78
4	1 to 1 1/4	3 1/2	1.00
4 1/2	1 1/4 to 1 3/4	4 1/2	1.68
5	1 3/4 to 2	5 1/2	2.95



### DOUBLE-ACTING SPRING HINGES

**85B3671**—Swing both ways. Has a adjustable covered tension spring. Easily applied and substantially constructed. Black japanned steel. (Without screws.) Give size.

Size, in.	Thickness of Door, in.	Wt. Pair, lbs.	Per Pair
3 1/2	3/4 to 1	2 1/2	\$0.78
4	1 to 1 1/4	3 1/2	1.00
4 1/2	1 1/4 to 1 3/4	4 1/2	1.68
5	1 3/4 to 2	5 1/2	2.95

# WIRE SCREEN



GUARANTEED GALVANIZED WIRE SCREEN

THREE-YEAR GUARANTEE

SPECIAL FINE MESH

**180B1335**—A Splendid, Guaranteed, Rust-Resisting Wire Cloth for general use. Evenly galvanized after weaving, by electric process. Elegant, dull gray color. Does not intercept the vision. Special Close Mesh, 14 meshes to the inch. (All ordinary screen wire is only 12 mesh.) Excludes all insects. Guaranteed for three years, and will easily last 5 to 10 years. Needs no painting. We will replace free of charge any of our Guaranteed Galvanized Wire Cloth which may prove defective within three years from date of purchase. The best and most economical for you to buy.

Width in.	Av. ship. wt. per 100 ft. roll	Per 50 ft. Roll	Per 100 ft. Roll	Av. ship. wt. Per 50 ft. Roll	Per Linear ft.
24	2 3/4 lbs.	\$2.60	\$5.00	12 3/4 lbs.	5 1/2c
26	3 lbs.	2.80	5.40	15 lbs.	6c
28	3 1/4 lbs.	3.00	5.80	17 1/2 lbs.	6 1/2c
30	3 3/4 lbs.	3.20	6.20	20 lbs.	7c
32	4 lbs.	3.40	6.60	22 1/2 lbs.	7 1/2c
34	4 1/4 lbs.	3.60	7.00	25 lbs.	8c
36	4 3/4 lbs.	3.80	7.40	27 1/2 lbs.	8 1/2c
38	5 lbs.	4.00	7.80	30 lbs.	9c
40	5 1/4 lbs.	4.20	8.20	32 1/2 lbs.	9 1/2c
42	5 3/4 lbs.	4.40	8.60	35 lbs.	10c
44	6 lbs.	4.60	9.00	37 1/2 lbs.	10 1/2c


### BLACK PAINTED WIRE CLOTH

**180B1330**—Painted Black Wire Cloth for window and door screens. We handle only the very best grade of wire cloth. Will stretch evenly. Made with uniform meshes and Double selvage. Thoroughly coated with high grade paint, which will not crack or peel off. Standard, 12 meshes to the inch. Put up in rolls containing 50 or 100 linear feet, but we supply it in any quantity. Always give size.

Keep Out the Fly. Screen Your House.


Width in.	Av. ship. wt. per 100 ft. roll	Per 50 ft. Roll	Per 100 ft. Roll	Av. ship. wt. Per 50 ft. roll	Per Linear ft.
24 in.	1 1/2 lbs.	\$1.30	\$2.50	12 lbs.	\$11.25
26 in.	1 3/4 lbs.	1.40	2.70	14 lbs.	12.10
28 in.	2 lbs.	1.50	2.90	16 lbs.	13.00
30 in.	2 1/4 lbs.	1.60	3.10	18 lbs.	14.00
32 in.	2 3/4 lbs.	1.70	3.30	20 lbs.	14.80
34 in.	3 lbs.	1.80	3.50	22 lbs.	15.80
36 in.	3 1/4 lbs.	1.90	3.70	24 lbs.	16.80
38 in.	3 3/4 lbs.	2.00	3.90	26 lbs.	17.80
40 in.	4 lbs.	2.10	4.10	28 lbs.	18.80
42 in.	4 1/4 lbs.	2.20	4.30	30 lbs.	19.80
44 in.	4 3/4 lbs.	2.30	4.50	32 lbs.	20.80
46 in.	5 lbs.	2.40	4.70	34 lbs.	21.80
48 in.	5 1/4 lbs.	2.50	4.90	36 lbs.	22.80

# SCREEN DOOR HARDWARE



### SCREEN DOOR CHECK AND SPRING

**85B3732**—Controls the door and prevents slamming. Polished brass cylinder. Reversible. Easily regulated. With directions. Wt., 7 oz. Each, .85c.



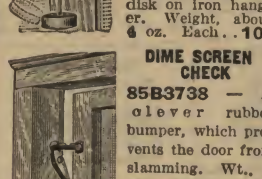
### DOOR SPRING

**85B3756**—Adjustable coiled steel spring. Length, 10 in. Wt., 7 oz. Each, .85c.



### SCREEN DOOR CHECK

**85B3735**—Attaches to the inside of screen door, and prevents slamming. Brass cylinder. 1 1/2 x 3 1/2 in. Simple and efficient. Wt., 8 oz. With directions. Each, .38c.



### HANDY DOOR CHECK

**85B3735**—Stops slamming of screen doors, by swinging outward. Rubber disk on iron hanger. Weight, about 4 oz. Each, .10c.



### DIME SCREEN CHECK

**85B3738**—A clever rubber bumper, which prevents the door from slamming. Wt., 3 oz. Each, .10c.




### HOLD BACK SCREEN DOOR SPRING HINGE

**85B3745**—Japanned iron hold back hinge, with a covered spring. Size, 3 1/2 x 2 1/2 in. Without screws. Wt., 1 lb. Per pair, .60c. Per doz. pairs, .60c.



### SCREEN DOOR SET

**85B3746**—1 pair hold back hinges; 1 japanned door pull and wire hook and eye. Wt., 1 1/4 lbs. Per set, .90c.



### WARNER DOOR SPRING

**85B3755**—Made of coppered steel spring wire. Easy to apply, simple and efficient. Wt., 6 oz. Each, .50c.



### STEEL SCREEN DOOR LATCH

Round knob on outside, and lever handle on inside. For doors 3/4 to 1 1/2 inch thick. Two escutcheons, 1 1/2 x 4 1/2 inch. Wt., 1/2 lb. **85B3770**—Polished Bronze. Set, .45c. **85B3771**—Antique copper. Set, .45c.




### WINDOW SCREEN HANGER

**85B3782**—Wrought steel japanned. For hanging full size window screens at the top. Wire Gate Hooks may be used at bottom. Weight, dozen 2 1/2 lbs. Per doz. sets, with screws to match, .54c.



### WINDOW SCREEN CORNER

**85B4560**—Japanned iron corners for window screens. Set of four corners with screws. Wt., set, 7 oz. Per set, .60c. Per doz. sets, .70c.



### SCREEN DOOR CORNER

**85B4561**—Japanned iron corners for screen doors. Set of four corners, and two center pieces, with screws. Weight, set, 1 lb. Per set, .50c. Per doz. sets, .20c.



# INTERESTING VALUES IN BARN AND STABLE HARDWARE

## ROLLER-BEARING BARN DOOR HANGERS



Heavy wrought steel. Wheels are roller bearing, making the hanger anti-friction on any length of track. (Without screws or bolts.)  
**85B3904**—Medium size. 1 in. Width, 6 in. Length, 10 3/4 in. Diameter of wheel, 3 1/2 in. Weight, pair, 5 1/2 lbs.  
Per pair ..... **35c**

## STEEL BARN DOOR HANGERS



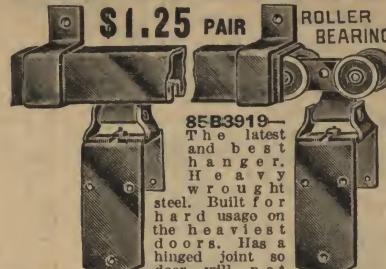
Wrought steel black japanned. Heavy and substantial. Wheels have steel axles and run in a slot the width of the hanger, which prevents wear and makes them easy running. Covered top to protect the wheels from snow, etc. Screws or bolts not included.  
**85B3906**—Size, 9x10 1/4 in. For doors having run of 6 ft. Weight, pair, 8 1/2 lbs. Per pair ..... **45c**  
**85B3907**—Size, 6 1/2 x 11 1/2 in. For doors having run of 10 ft. Weight, pair, 10 1/2 lbs. Per pair ..... **60c**  
(For suitable track, see 185B3908.)

## HINGE JOINT BARN DOOR HANGERS



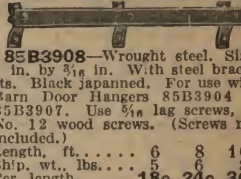
52c  
**85B3900**—Heavy wrought steel. Very strong. One of our most popular barn door hangers. Many thousands in use and giving excellent satisfaction. With hinged joint and roller bearing wheels. Suitable for any size door or any length of run. The hinge joint prevents the door from binding when it is swung in or out. It cannot be thrown off the track as it has a guard that runs under the track. Will not run on ordinary track. For suitable track, see No. 185B3901. Complete with bolts. Diameter of wheel, 3 1/2 in. Exceptional value. Weight, pair, 6 1/2 lbs. Per pair ..... **52c**

## IMPROVED TROLLEY BARN DOOR HANGER



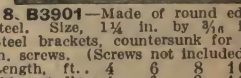
**\$1.25 PAIR**  
**85B3919**—The latest and best hanger. Heavy wrought steel. Built for hard usage on the heaviest doors. Has a hinged joint so door will not bind when swung out. A detachable door strap makes it easy to hang the door. Lateral adjustment to fit doors 1 1/2 to 2 1/2 in. thick. Easy running Roller Bearing Wheels. Heavy steel track and brackets. A pair consists of two hangers, two end brackets and one center bracket with bolts and screws. Weight, pair, 9 1/2 lbs. Per pair ..... **\$1.25**

## STEEL BARN DOOR RAIL



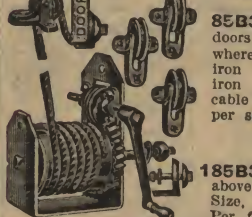
**185B3908**—Wrought steel. Size, 1 in. by 3 1/4 in. With steel brackets. Black japanned. For use with Barn Door Hangers 85B3904 to 85B3907. Use 3/4 in. lag screws, or No. 12 wood screws. (Screws not included.)  
Length, ft. .... 6 8 10  
Ship. wt., lbs. .... 5 8 10  
Per length, 1 ft. .... **24c 30c**

## STEEL BARN DOOR RAIL



**185B3901**—Made of round edge steel. Size, 1 1/4 in. by 3/4 in. Steel brackets, countersunk for 3/4 in. screws. (Screws not included.)  
Length, ft. .... 4 6 8 10  
Ship. wt., lbs. .... 4 6 8 10  
Per length, 1 ft. .... **28c 34c 42c**

## CONVENIENT BARN DOOR HOIST



**85B3945**—For handling Vertical Sliding doors in hay lofts, etc. Highly thought of wherever used. Consists of a strong, 5-in. iron drum, self locking at any point, three iron pulleys; one iron clamp, for fastening cable to door, japanned. Shipping weight, per set, 23 lbs. Per set ..... **\$4.85**

## WIRE CABLE

**185B3946**—Wire Cable for use with the above hoist. Strong, flexible and durable. Size, 3/16 in. Weight, for 100 ft., 12 1/2 lbs. Per foot ..... **2 1/2c**

## BARN DOOR STAY ROLLER



**85B3930**—A d justable Hinge Joint Stay Roller. Will fit closely to the floor. Wrought steel, iron wheel. (Without screws.) Weight, each, 12 oz. Each ..... **\$0.09**  
Per dozen ..... **1.00**

## BARN DOOR STAY ROLLER



**85B3932**—A d justable and reversible. Wrought steel. Weight, each, 14 oz. Each ..... **7c**  
Dozen ..... **.75c**

## BARN DOOR STAY ROLLER



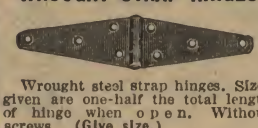
**85B3936**—Barn Door Stay Roller to screw. Wrought shank, iron wheel. Length, 7 in. Wt., each, 10 oz. Each ..... **5c**  
Per dozen ..... **.50c**

## STEEL DRIVE GATE HANGERS



**85B3842**—Steel Sliding and Swinging Gate Hanger. The weight of the gate hangs in the center on its strongest point. Gate can easily be raised to clear deep snow or other obstruction. Made of steel and will not break. (Bolts not included.) Diameter of wheel, 3 1/4 in. Weight, 5 lbs. Each ..... **.38c**

## WROUGHT STRAP HINGES



Wrought steel strap hinges. Sizes given are one-half the total length of hinge when open. Without screws. (Give size.)  
**85B3820**—Light Pattern.  
Size in. Width joint Wt. pair Size screw Per pair Doz. pair  
4 1 1/2 1 1/2 8 oz. No. 6 3c 26c  
6 2 1/2 2 1/2 12 oz. No. 7 4c 36c  
8 3 3 12 oz. No. 8 4c 40c

## 85B3821—Heavy Pattern.

Size in.	Width joint	Wt. pair	Size screw	Per pair	Doz. pair
4	1 1/2	8 oz.	No. 6	4c	\$0.40
6	2 1/2	12 oz.	No. 7	5c	.55
8	3	1 lb.	No. 8	7c	.70
10	3 3/4	1 1/2 lb.	No. 9	10c	1.15
12	4 1/4	2 lb.	No. 10	16c	1.70

## CORRUGATED STRAP HINGES



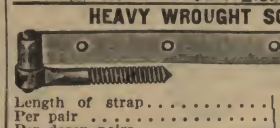
**85B3824**—Wrought Steel Corrugated Strap Hinges. Strong and stiff. Sizes given are one-half the total length of hinge when open. Without screws. (Give size.)  
Size in. Width joint Wt. pair Size screw Per pair Doz. pair  
4 1 1/2 1 1/2 8 oz. No. 6 5c \$0.48  
6 2 1/2 2 1/2 12 oz. No. 7 6c .55  
8 3 3 12 oz. No. 8 7c .60  
10 3 3/4 1 1/2 lb. No. 9 10c .70  
12 4 1/4 2 lb. No. 10 16c 1.70

## HART'S HEAVY STRAP HINGES



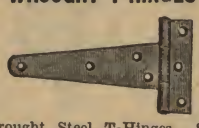
**85B3825**—Made with two thicknesses of steel surrounding the pin, giving double the strength. Inside leaves are galvanized. Sizes given are one-half the total length of hinge when open. Without screws. (Give size.)  
Size in. Width joint Wt. pair Size screw Per pair Doz. pair  
4 1 1/2 1 1/2 8 oz. No. 6 9c \$1.33  
6 2 1/2 2 1/2 12 oz. No. 7 12c .90  
8 3 3 12 oz. No. 8 13c .95  
10 3 3/4 1 1/2 lb. No. 9 18c 1.35  
12 4 1/4 2 lb. No. 10 25c 2.25

## HEAVY WROUGHT SCREW STRAP HINGES



**85B3840**—With pointed screw. Wt., pair, 4 1/2, 6 lbs. (Give size.)  
Length of strap ..... 10 in. \$0.17 12 in. \$0.19 14 in. \$0.25  
Per pair ..... 1.85 2.10 2.85  
Per dozen pairs ..... 22.20 25.20 34.20

## WROUGHT T-HINGES



Wrought Steel T-Hinges. Sizes below indicate length of the strap. Without screws.  
**85B3828**—Light pattern.  
Size in. Width joint Wt. pair Size screw Per pair Doz. pair  
4 1 1/2 1 1/2 8 oz. No. 6 3c 27c  
6 2 1/2 2 1/2 12 oz. No. 7 4c 38c  
8 3 3 12 oz. No. 8 4c 42c

## 85B3830—Extra heavy pattern.

Size in.	Width joint	Wt. pair	Size screw	Per pair	Doz. pair
4	1 1/2	8 oz.	No. 6	8c	\$0.90
6	2 1/2	12 oz.	No. 7	10c	1.50
8	3	1 lb.	No. 8	14c	2.20
10	3 3/4	1 1/2 lb.	No. 9	20c	3.20
12	4 1/4	2 lb.	No. 10	29c	4.20

## CORRUGATED T-HINGES



**85B3832**—Wrought Steel Corrugated T-Hinges. The corrugations about the joints greatly increase the strength and prevent binding on the pin. Sizes indicate length of the strap. Without screws. (Give size.)  
Size in. Width joint Wt. pair Size screw Per pair Doz. pair  
4 1 1/2 1 1/2 8 oz. No. 6 10c \$0.58  
6 2 1/2 2 1/2 12 oz. No. 7 12c .80  
8 3 3 12 oz. No. 8 14c .98  
10 3 3/4 1 1/2 lb. No. 9 19c 1.60  
12 4 1/4 2 lb. No. 10 22c 2.40

## PATENT HEAVY T-HINGES



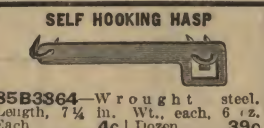
**85B3834**—Made with two thicknesses of steel surrounding the pin its entire length and extending back upon the strap and tee, thus, giving double the strength of any ordinary hinge. Inside leaves are galvanized. Sizes indicate length of the strap. Weight, per pair, 1 1/2 to 7 1/2 lbs. Without screws. (Give size.)  
Size in. Width joint Wt. pair Size screw Per pair Doz. pair  
6 2 1/2 2 1/2 12 oz. No. 7 15c \$1.65  
8 3 3 12 oz. No. 8 24c 2.65  
10 3 3/4 1 1/2 lb. No. 9 35c 3.85  
12 4 1/4 2 lb. No. 10 48c 5.60



**85B3846**—Wrought steel latch, malleable hinges. Fastened on surface. Wt., set of 2 hinges, 1 latch and screws, 1 1/2 lbs. Per set, 3 1/2 c.



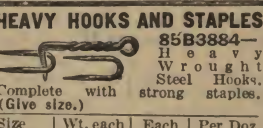
**85B3856**—Japanned. Each, 8c  
**85B3857**—Galvanized. Each, 10c



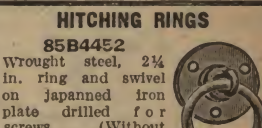
**85B3864**—Wrought steel. Length, 7 1/4 in. Wt., each, 6 1/2 c. Each, 4c Dozen ..... **39c**



**85B3878**—Malleable iron, will not break. Has handle both sides of door. No springs or small parts to get out of order. Easily attached and one of the most satisfactory latches made. Length, 8 in. Weight, 1 1/4 lbs. Each ..... **28c**



**85B3884**—Heavy wrought steel hooks. Complete with strong staples. (Give size.)  
Size Wt. each Each Per Doz.  
4 in. 3 oz. 2c 12c  
6 in. 4 oz. 2c 16c



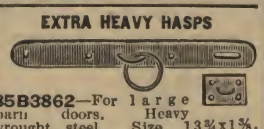
**85B4452**—Wrought steel, 2 1/4 in. ring and swivel on japanned iron plate drilled for screws. (Without screws.) Wt., 5 oz. Each ..... **5c**



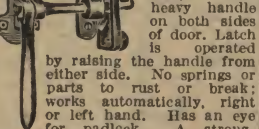
**85B3850**—For Wood buildings. Operate the same as common cast iron hinges. Reversible. Wt., set of 4 hinges, 2 latches and screws, 1 lb. Per set, 14c Doz. sets, **\$1.40**



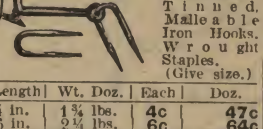
**85B3856**—Wrought steel, bronze plated. Length, 2 1/2 inches. Width at joint, 3/4 in. Concealed holes. Wt., each, 4 oz. Each, 5c Doz., **50c**



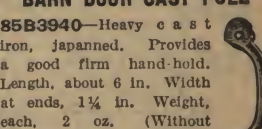
**85B3862**—For large barn doors. Heavy wrought steel. Size, 13 1/2 x 1 1/2 in. With ring and staple. Weight, 1 1/2 lbs. Each ..... **15c**



**85B3879**—All malleable iron, with heavy handle on both sides of door. Latch is operated by raising the handle from either side. No springs or small parts to rust or break; works automatically, right or left hand. Has an eye for padlock. A strong, durable latch for barns, garages, etc. Length, 8 in. Weight, 2 1/4 lbs. Each ..... **40c**



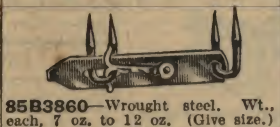
**85B3890**—Bright steel. Wt., per doz., 8 to 20 oz. (Give size.)  
Size, in. 2 2 1/2 3 3 1/2 4  
Per doz. 6c 6c 8c 10c 12c



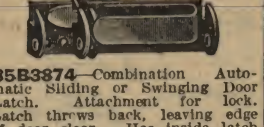
**85B3937**—Extra heavy steel. Also a splendid door bar staple. Length, about 8 in. Weight, about 1 lb. Each, **10c**



**85B3857**—Wrought steel. Concealed screw holes. Length strap, 6 in. Between centers, 2 1/2 in. Wt., each, 8 oz. Each, **\$0.10**  
Per doz ..... **1.10**



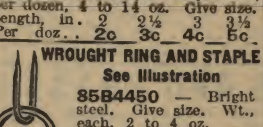
**85B3858**—Polished cast brass. Size, closed, 3 1/4 x 1 1/4 inches. Without screws. Weight, 8 oz. Each ..... **24c**



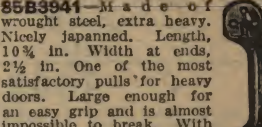
**85B3874**—Combination. Automatic Sliding or Swinging Door Latch. Attachment for lock. Latch throws back, leaving edge of door clear. Has inside latch and pull. Reversible, right or left. Length, 8 in. Weight, 1 1/2 lbs. Each ..... **22c**



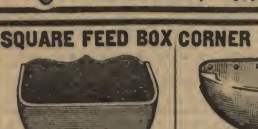
**85B3865**—Japanned cast iron. Length, 7 1/4 inches. Operates from both sides of door. A strong and very satisfactory bolt. Weight, 1 1/2 lbs. Each ..... **15c**



**85B3886**—Wrought steel staples only. Wt., per dozen, 4 to 14 oz. Give size.  
Length, in. 2 2 1/2 3 3 1/2 4  
Per doz. 2c 3c 4c 5c



**85B3941**—Made of wrought steel, extra heavy. Nicely japanned. Length, 10 1/2 in. Width at ends, 2 1/2 in. One of the most satisfactory pulls for heavy doors. Large enough for an easy grip and is almost impossible to break. With screws. Wt., each, 12 oz. Each ..... **\$0.14**  
Per dozen ..... **1.55**



**183B1720**—Square Feed Box or Manger. Made of heavy cast iron. Nicely painted black. Useful as well as ornamental. Feeder than wood. Length, 18 in. Width, 12 in. Depth, 8 1/4 in. Ship. wt., 33 lbs. Each ..... **\$1.20**



**183B1721**—Corner Feed Box or Manger. Made of heavy cast iron. Flat flange top prevents waste of food. Nicely painted black. Size, 15x15 inches. Depth, 8 1/4 in. Ship. wt., 26 lbs. Each ..... **\$1.05**



**83B1724**—An especially neat and convenient stable fixture. Occupies little space and is very durable. Made of cast iron japanned black. Size, 5x5 in. Depth, 4 in. Wt., 3 1/2 lbs. Each ..... **32c**



**183B1732**—Crimped Wire Stall Guards. Made of heavy steel wire, 2 1/2 in. diamond mesh. With 1 in. channel iron frame. Curved end, oval banded top. Screw holes in bottom and top. Painted dark et. Made of heavy green. Shipping weight, 24, 26 and 28 lbs.  
Length | Height | Each  
6 ft. | 25 in. | **\$2.10**  
7 ft. | 25 in. | **2.25**  
8 ft. | 25 in. | **2.35**



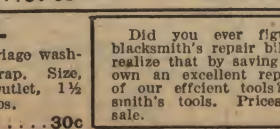
**183B1734**—Saddle and Bridle Bracket. Made of heavy cast iron, japanned black. Convenient, attractive and very durable. Ship. Wt., 6 lbs. Each ..... **42c**



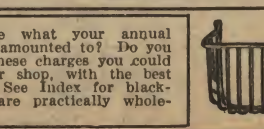
**85B4310**—Japanned Cast Iron. Length, 6 in. Wt., each, 8 oz. Each, **4c**  
**85B4316**—Japanned wrought steel. Folds back against the wall when raised. Give size. Length, about 10 in. Wt., 1 1/4 lbs. Each, **\$0.12**  
**85B4312**—Japanned Cast Iron. Length, about 12 in. Wt., 1 1/4 lbs. Each, **\$0.16**  
Doz. .... **54c**  
Doz. .... **1.80**



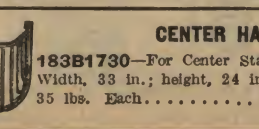
**83B1738**—For carriage washroom, etc. With trap. Size, 5 1/2 in. square. Outlet, 1 1/2 in. Weight, 4 1/2 lbs. Each ..... **30c**



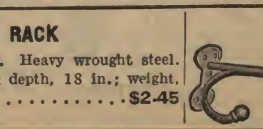
**183B1730**—For Center Stall. Heavy wrought steel. Width, 33 in.; height, 24 in.; depth, 18 in.; weight, 35 lbs. Each ..... **\$2.45**



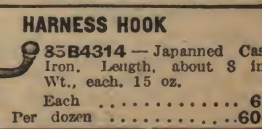
**83B4314**—Japanned Cast Iron. Length, about 8 in. Wt., each, 15 oz. Each ..... **6c**  
Per dozen ..... **60c**



**183B1730**—For Center Stall. Heavy wrought steel. Width, 33 in.; height, 24 in.; depth, 18 in.; weight, 35 lbs. Each ..... **\$2.45**



**83B4314**—Japanned Cast Iron. Length, about 8 in. Wt., each, 15 oz. Each ..... **6c**  
Per dozen ..... **60c**



**83B4314**—Japanned Cast Iron. Length, about 8 in. Wt., each, 15 oz. Each ..... **6c**  
Per dozen ..... **60c**



# CHEST, DRAWER AND CUPBOARD LOCKS

## CHEST LOCKS



Wts. 1 to 4 oz. 1 key.  
 85B4012—Brass 1½ in. To key pin, ½ in. Each .....14c  
 85B4013—Iron, 2 in. To key pin, ½ in. Each .....12c  
 85B4014—Iron, 2½ in. To key pin, ½ in. Each .....15c  
 85B4015—Brass, 2½ in. To key pin, ½ in. Each .....18c  
 85B4016—Iron, 3 in. To key pin, 1 in. Each .....18c

## CHEST LOCKS



To center of brass cylinder. ¾ in. Two keys. Wt. 3 oz.  
 85B4018—Size, 2 in. For ¾ in. wood. Each .....43c  
 85B4019—Size, 2½ in. For ¾ in. or 1½ in. wood (give thickness). Each .....58c

## CHEST LOCKS



Size, 3 in. To key pin, 1½ in. One key. Wt., 4 oz.  
 85B4021—Iron. Each .....28c  
 85B4022—Brass. Each .....30c

## CHEST LOCKS



Iron. Self-locking. One key. Brass escutcheon.  
 85B4026—Size, 2½x3½ in. Wt., 8 oz. Each, 40c  
 85B4027—Size, 2½x1½ in. Wt., 3 oz. Each 32c

## CHEST LOCKS



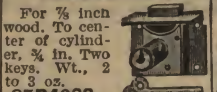
Brass. Two keys.  
 85B4030—Size, 2½x2 in. To center of cylinder. 1½ in. For wood 1½ in. or 1 in. Wt., 5 oz. Each .....90c  
 85B4031—Size, 1½x1½ in. To center of cylinder. ¾ in. For ¾ in. wood. Wt., 2 oz. Each .....48c

## DRAWER LOCKS



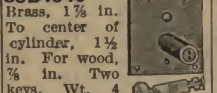
Wt. 1 to 2 oz. 1 key.  
 85B4034—Iron, 1½ in. To key pin, ½ in. Each .....22c  
 85B4035—Iron, 2 in. To key pin, ½ in. Each .....23c  
 85B4036—Brass, 2½ in. To key pin, ½ in. Each .....32c

## DRAWER LOCKS



For ¾ inch wood. To center of cylinder. ¾ in. Two keys. Wt., 2 to 3 oz.  
 85B4038—Iron, 1½ in. Each .....17c  
 85B4039—Brass, 2 in. Each .....25c

## DRAWER LOCK



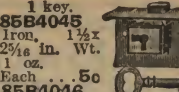
Brass, 1½ in. To center of cylinder, 1½ in. For wood, ¾ in. Two keys. Wt., 4 oz. Each, 22c

## BOX LOCK



Iron. Self-locking. One key. Brass escutcheon.  
 85B4026—Size, 2½x3½ in. Wt., 8 oz. Each, 40c  
 85B4027—Size, 2½x1½ in. Wt., 3 oz. Each 32c

## CUPBOARD LOCKS



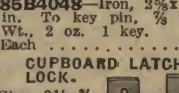
1 key.  
 85B4045—Iron, 1½x2 in. To key pin, ½ in. Each .....50c  
 85B4046—Brass, 2½x2 in. To key pin, ½ in. Each .....25c

## MORTISE LOCK



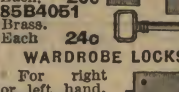
Size, 2½x2 in. To key pin, ½ in. Each .....50c

## CUPBOARD LATCH LOCK.



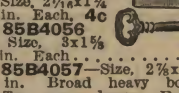
Size, 2½x2 in. To key pin, ½ in. Each .....50c

## WARDROBE LOCKS



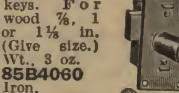
For right or left hand. Wt. 2 oz. 1 key.  
 85B4050—Iron. Each, 20c  
 85B4051—Brass. Each, 24c

## WARDROBE LOCKS



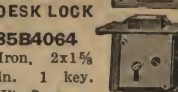
Size, 2½x2 in. To key pin, ½ in. Each .....50c

## WARDROBE LOCKS



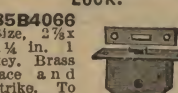
Size, 2½x2 in. To key pin, ½ in. Each .....50c

## ROLL TOP DESK LOCK



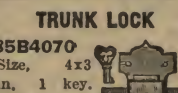
85B4064—Iron, 2x1½ in. 1 key. Wt. 3 oz. Each, 35c

## SEWING MACHINE LOCK.



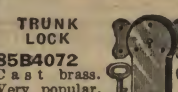
85B4066—Size, 2½x2 in. 1 key. Brass face and strikes. To key hole, ¾ in. Wt., 2 oz. Each. 50c Per doz. 50c

## TRUNK LOCK



85B4070—Size, 4x3 in. 1 key. Japaned iron. Wt., 6 oz. Each, 12c

## TRUNK LOCK



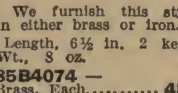
85B4072—Cast brass. Very popular. Size, 6½x1½ in. 3 keys. Wt., 9 oz. Each .....42c

## TRUNK LOCK



We furnish this style in either brass or iron. Length, 6½ in. 2 keys. Wt., 3 oz.

## TRUNK LOCK



85B4074—Brass. Each, 48c  
 85B4075—Japaned iron. Each .....24c

## FINE DRAWER PULLS



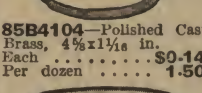
85B4100—Polished Cast Brass, 5½x1½ in. Each .....\$0.19  
 Doz. ....2.15

## FINE DRAWER PULLS



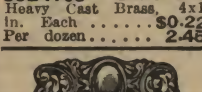
85B4102—Antique copper finish, on cast brass. Size, 1½x4 in. Each ..30c Doz. \$3.30

## FINE DRAWER PULLS



85B4104—Polished Cast Brass, 4½x1½ in. Each .....\$0.14  
 Per dozen .....1.50

## FINE DRAWER PULLS



85B4105—Polished Heavy Cast Brass, 4x1 in. Each .....\$0.22  
 Per dozen .....2.45

## FINE DRAWER PULLS



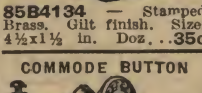
85B4120—Stamped Brass. Gilt finish. Size, 4x1½ in. Doz. ....25c

## FINE DRAWER PULLS



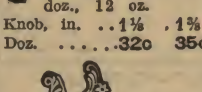
85B4130—Stamped Brass. Gilt finish. Size, 4½x1½ in. Doz. ....28c

## FINE DRAWER PULLS



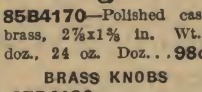
85B4132—Stamped Brass. Gilt finish. Size, 4½x1½ in. Doz. ....30c

## FINE DRAWER PULLS



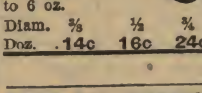
85B4134—Stamped Brass. Gilt finish. Size, 4½x1½ in. Doz. ....35c

## FINE DRAWER PULLS



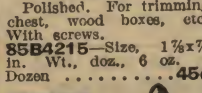
85B4170—Polished cast brass, 2½x1½ in. Wt., doz., 24 oz. Doz. ....98c

## FINE DRAWER PULLS



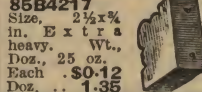
BRASS KNOBS  
 85B4190—Polished Cast Brass. To screw in. Wt., doz., 1 to 6 oz. Diam. ¾ 1 1½ 2 Diam. ¾ 1 1½ 2 Doz. ....14c 16c 24c

## FINE DRAWER PULLS



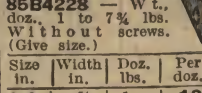
85B4216—Size, 1½x1½ in. Wt., doz., 8 oz. Doz. ....53c

## FINE DRAWER PULLS



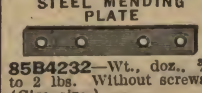
85B4217—Size, 2½x2 in. Extra heavy. Wt., doz., 25 oz. Each .....\$0.12  
 Doz. ....1.35

## FINE DRAWER PULLS



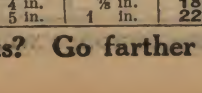
85B4228—Wt., doz., 1 to 7½ lbs. Without screws. (Give size.)

## FINE DRAWER PULLS



85B4232—Wt., doz., ¾ to 2 lbs. Without screws. (Give size.)

## FINE DRAWER PULLS



Size Width Doz. Per doz.  
 2 in. ¾ in. 12c  
 3 in. ¾ in. 18c  
 4 in. ¾ in. 28c  
 5 in. 1 in. 22c

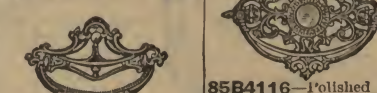
## CAST DRAWER PULLS

Bolts with nuts project from the back 3 in. apart. Average wt., doz., 3 lbs.



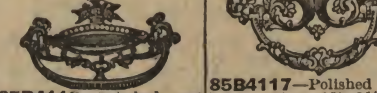
85B4108—Polished cast brass, 4½x1½ in. Each .....\$0.33  
 For doz. ....3.75

## CAST DRAWER PULLS



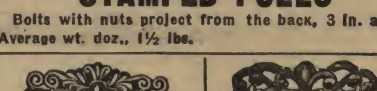
85B4110—Polished cast brass. Size, 4½x2 in. Each .....7c Doz. ....78c

## CAST DRAWER PULLS



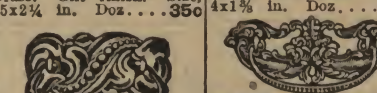
85B4112—Polished cast brass. Size, 4½x2 in. Each .....\$0.125  
 Per dozen .....1.25

## CAST DRAWER PULLS



85B4114—Polished cast brass. Size, 4x2 in. Each .....4c Doz. ....46c

## CAST DRAWER PULLS



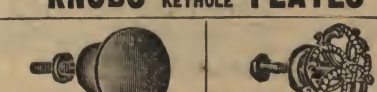
85B4116—Polished cast brass. Size, 4½x2½ in. Each .....12c Doz. ....\$1.25

## CAST DRAWER PULLS



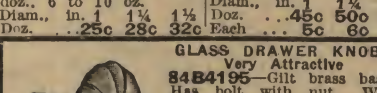
85B4117—Polished cast brass. Size, 4½x2½ in. Each .....\$0.125  
 Per dozen .....1.25

## CAST DRAWER PULLS



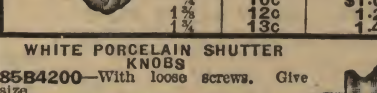
85B4118—Polished cast brass, 2½x1½ in. Wt., doz., 1 oz. Each .....3c  
 Doz. ....32c

## CAST DRAWER PULLS



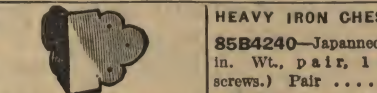
85B4180—Polished cast brass, 2½x1½ in. Wt., doz., 1 oz. Each .....3c  
 Doz. ....32c

## CAST DRAWER PULLS



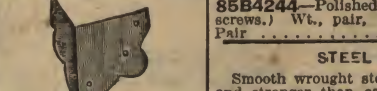
85B4182—Stamped Brass. Gilt finish. 1½ in. Wt., doz., 2 oz. Doz. ....30c

## CAST DRAWER PULLS



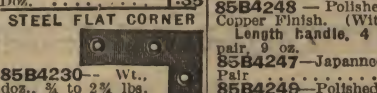
85B4184—Stamped Brass. Gilt finish. 2 x 1½ in. Wt., doz., 1 oz. Doz. ....9c

## CAST DRAWER PULLS



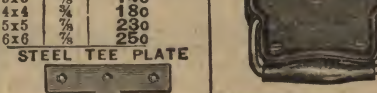
85B4186—Stamped brass. Gilt finish. 1 oz. Wt., doz., 1 oz. Doz. ....50c  
 Gross .....60c

## CAST DRAWER PULLS



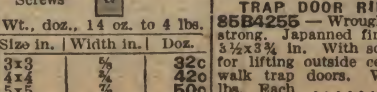
85B4200—With loose screws. Give size, Diam., in. ¾ 1 1½ 2 Wt., doz., 2 oz. 3 oz. 4 oz. 9 oz. 15 oz. Per doz. 9c 10c 11c 14c 17c

## CAST DRAWER PULLS



85B4220—Size, 2½x2½ in. Extra heavy brass. Wt., doz., 26 oz. Each .....\$0.12  
 Doz. ....1.35

## CAST DRAWER PULLS



85B4240—Japaned. Size, 3½ in. Wt., pair, 1 lb. (Without screws.) Pair .....60c

## CAST DRAWER PULLS



85B4241—Size, 4 in. Wt., pair, 1½ lbs. (Without screws.) Pair .....80c

## DOOR HANDLE

85B4160—Polished cast brass, 4½ in. For china closets, etc. Without screws. Wt., doz., 12 oz. Each .....8c  
 Per dozen .....85c

## DOOR HANDLE



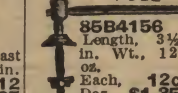
85B4162—Polished cast brass, 3½ in. Without screws. Wt., 12 oz. Each .....70c  
 Per dozen 70c

## COMBINATION HANDLE



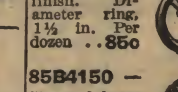
85B4164—Hand- and Escutcheon, 4½ in. Polished cast brass. With out screws. Wt., 12 oz. Each 8c Doz. 85c

## CAST BRASS PULL



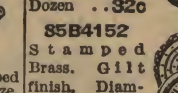
85B4156—Length, 3½ in. Wt., 12 oz. Each, 12c  
 Doz., \$1.35

## CAST BRASS PULL



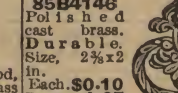
85B4148—3 in. x 1 in. Brass. Gilt finish. Diameter ring, 1½ in. Per dozen .....85c

## CAST BRASS PULL



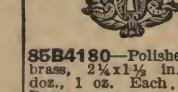
85B4150—Stamped brass. Gilt finish. Diameter ring, 1½ in. Dozen .....32c

## CAST BRASS PULL



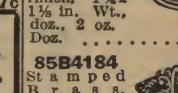
85B4152—Stamped Brass. Gilt finish. Diameter ring, 1½ in. Dozen .....18c

## CAST BRASS PULL



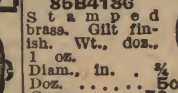
85B4146—Polished cast brass. Diameter ring, 1½ in. Size, 2½x2 in. Each, \$0.10  
 Doz. ....1.05

## BRASS ESCUTCHEONS



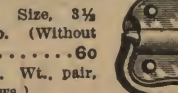
85B4180—Polished cast brass, 2½x1½ in. Wt., doz., 1 oz. Each .....3c  
 Doz. ....32c

## BRASS ESCUTCHEONS



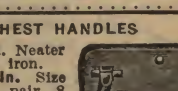
85B4182—Stamped Brass. Gilt finish. 1½ in. Wt., doz., 2 oz. Doz. ....30c

## BRASS ESCUTCHEONS



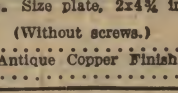
85B4184—Stamped Brass. Gilt finish. 2 x 1½ in. Wt., doz., 1 oz. Doz. ....9c

## BRASS ESCUTCHEONS



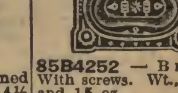
85B4186—Stamped brass. Gilt finish. 1 oz. Wt., doz., 1 oz. Doz. ....50c  
 Gross .....60c

## BRASS ESCUTCHEONS



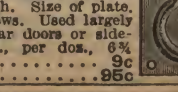
85B4200—With loose screws. Give size, Diam., in. ¾ 1 1½ 2 Wt., doz., 2 oz. 3 oz. 4 oz. 9 oz. 15 oz. Per doz. 9c 10c 11c 14c 17c

## BRASS ESCUTCHEONS



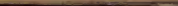
85B4220—Size, 2½x2½ in. Extra heavy brass. Wt., doz., 26 oz. Each .....\$0.12  
 Doz. ....1.35

## BRASS ESCUTCHEONS



85B4240—Japaned. Size, 3½ in. Wt., pair, 1 lb. (Without screws.) Pair .....60c

## BRASS ESCUTCHEONS



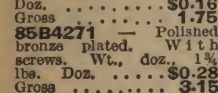
85B4241—Size, 4 in. Wt., pair, 1½ lbs. (Without screws.) Pair .....80c

## COAT AND HAT HOOKS



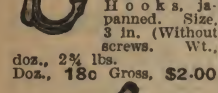
85B4270—Japaned Iron. No screws. Wt., doz., 1½ lbs. Doz. ....\$0.16  
 Gross .....1.75

## COAT AND HAT HOOKS



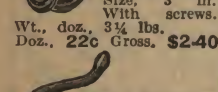
85B4271—Polished bronze plated. With screws. Wt., doz., 1½ lbs. Doz. ....\$0.28  
 Gross .....3.15

## COAT AND HAT HOOKS



85B4274—Heavy Iron Hooks, Japaned. Size, 3 in. (Without screws. Wt., doz., 2½ lbs. Doz., 18c Gross, \$2.00

## COAT AND HAT HOOKS





# HARDWARE NECESSITIES AT INTERESTING PRICES

## STEEL SHELF BRACKETS

Wrought Steel Shelf Brackets. Will not break. We have two finishes, Black japanned, and brass plated. Wt., pair, 1/4 to 1 1/2 lbs.

Size, In.	85B4350 Jap.	85B4351 Brass Plated
4x5	4c	\$0.09
5x7	7c	\$0.13
6x8	8c	\$0.18
7x9	9c	\$0.20
8x10	9c	\$0.25
10x12	12c	\$0.27

Screws included only with 85B4351 brass plated.

## FOLDING STEEL BRACKETS

85B4354—Wrought steel japanned. Locks automatic. Fully when lifted up and folds down against the wall when not in use. Fine for the kitchen, pantry or store room. (Screws not included.) (Give size.)

**Folding Bracket**

Size, In.	Wt., Pair	Per Doz.
8x8	1 1/2 lbs.	\$2.50
12x12	2 1/2 lbs.	\$3.75
16x16	4 lbs.	\$6.30

## IRON FLOWER POT BRACKETS

Dark Bronze Lacquered Finish

**85B4358**—Length of arm, 5 in.; diameter of dish, 4 in. Wt., 8 oz. Each ..... 8c

**85B4362**—Heavy bracket for two flower pots. Length of arm, 11 in. Wt., 2 1/2 lbs. Each ..... 25c

**85B4360**—Length of arm, 5 1/2 in.; diameter of dish, 4 1/2 in. Wt., 1 lb. Each ..... 15c

**85B4361**—Length of arm, 8 in.; diameter of dish, 5 1/2 in. Wt., 1 1/2 lbs. Each ..... 20c

## ROLLER BEARING CASTERS

**85B4380**—Made of iron. Revolve upon steel rollers or disks. With 1 1/2 in. iron wheel; 1 1/2 in. plate. Long stem. Wt., set, 1 lb. Per set of four ..... 14c

**85B4382**—Made of iron, copper plated. Revolve upon steel rollers or disks. With 1 1/2 in. iron wheel. Common stem. Wt., set, 1 1/2 lbs. Per set of four ..... 18c

**85B4384**—With 1 1/2 in. iron wheel. Oblong plate, 1 1/2 in. inches. Set of four ..... 15c

**85B4385**—With 1 1/2 in. iron wheel. Oblong plate, 1 1/2 in. Wt., set, 1 1/2 lbs. Set of four ..... 19c

**85B4386**—With 1 1/2 in. iron wheel. Oblong plate, 1 1/2 in. Wt., set, 2 1/2 lbs. Set of four ..... 24c

**85B4390**—Small ball bearing caster. For shirt waist boxes, etc. Wt., set, 8 oz. Set of four ..... 22c

**85B4391**—Hardwood wheels. Height, 1 1/2 in. Oblong plate, 1 1/2 in. Wt., set, 8 oz. Set of four ..... 22c

## BALL BEARING CASTERS

**85B4370**—Brass plated. Diameter of ball, 1/2 in. Wt., set, 4 oz. Set of four ..... 56c

**85B4371**—Diameter of ball, 1 1/2 in. Wt., 14 oz. Set of four ..... 46c

**85B4372**—Brass plated. Diameter of ball, 1/2 in. Wt., set, 5 oz. Set of four ..... 52c

**85B4374**—Diameter of ball, 1 1/2 in. Wt., 12 oz. Set of four ..... 60c

**85B4375**—For Good Furniture. A high grade caster for good furniture. Wheels are compressed pure wool felt. Will not scratch the floor. Run easily and quietly. Size of sockets, 3/16 in. Wt., set about 1 lb. Diameter, wheel, 1 1/2 in. Set of four ..... 45c

**85B4376**—Diameter, wheel, 1 1/2 in. Set of four ..... 60c

**85B4377**—Diameter, wheel, 1 1/2 in. Set of four ..... 75c

## COMMON CASTERS

**GRIP NECK 6c to 9c A SET**

Maple wheels. With sockets, 3/16 in. Wt., set, 6 to 12 oz.

**85B4392**—Maple wheel, 1 1/2 in. Per set ..... 6c

**85B4393**—Maple wheel, 1 1/2 in. Per set ..... 8c

**85B4394**—Lignum vitae wheel, 1 1/2 in. Per set ..... 7c

**85B4395**—Lignum vitae wheel, 1 1/2 in. Per set ..... 9c

**BED CASTERS**

**ALL IRON, COPPER BRONZED**

**85B4396**—Iron wheel, 1 1/2 in. Wt., set, 1 1/2 lbs. Per set ..... 8c

**85B4397**—Iron wheel, 1 1/2 in. Wt., set, 1 1/2 lbs. Per set ..... 8c

**85B4398**—Iron wheel, 2 in. Wt., set, 1 1/2 lbs. Per set ..... 10c

**85B4399**—Maple wheel, 1 1/2 in. Wt., set, 1 lb. Per set ..... 9c

Per dozen sets ..... \$1.00

## BEST QUALITY STEEL WOOD SCREWS

The Numbers 1, 2, 3, etc., indicate thickness of screw and size of head. Illustrations are actual size. We handle first quality Wood Screws only. Accurately made with good, strong flat heads and sharp gimlet points. Illustrations show full size of screws in the lengths and numbers indicated. (Give size.)

No.	Length	Wt. per gross
No. 12	2 in.	1 lb.
No. 10	1 1/2 in.	1 lb.
No. 9	1 1/4 in.	1 lb.
No. 8	1 1/2 in.	1 lb.
No. 7	1 in.	1 lb.
No. 6	3/4 in.	1 lb.
No. 5	1/2 in.	1 lb.
No. 4	3/8 in.	1 lb.
No. 3	1/4 in.	1 lb.
No. 2	1/8 in.	1 lb.
No. 1	1/16 in.	1 lb.

We cannot sell less than a gross of screws at the gross price.

**85B4490**—One Gross Flat Head Wood Screws Three dozen each; 3/4x7, 1x9, 1 1/2x10, 1 1/2x12. A splendid assortment. Wt., 18 oz. Per pkg. .... 17c

**Assorted 17c Screws**

85B4464	85B4465	85B4466	85B4467	85B4468	85B4469
Length, 3/4 in. Wt., 4 to 11 oz.	Length, 3/4 in. Wt., 6 to 18 oz.	Length, 1 in. Wt., 1/2 to 1 1/2 lb. gro.	Length, 1 1/4 in. Wt., 3/2 to 2 1/2 lb. gro.	Length, 1 1/2 in. Wt., 1 to 3 lb. gro.	Length, 1 3/4 in. Wt., 1 1/2 to 4 lb. gro.
No. 4 9c 5 9c 6 10c 7 10c 8 11c 9 11c 10 12c 11 12c 12 13c	No. 5 9c 6 10c 7 11c 8 11c 9 12c 10 12c 11 13c 12 13c 13 14c	No. 1 11c 2 12c 3 12c 4 13c 5 13c 6 14c 7 14c 8 15c 9 15c 10 16c 11 16c 12 17c 13 17c 14 18c	No. 1 13c 2 14c 3 14c 4 15c 5 15c 6 16c 7 16c 8 17c 9 17c 10 18c 11 18c 12 19c 13 19c 14 20c	No. 1 14c 2 15c 3 15c 4 16c 5 16c 6 17c 7 17c 8 18c 9 18c 10 19c 11 19c 12 20c 13 20c 14 21c	No. 1 15c 2 16c 3 16c 4 17c 5 17c 6 18c 7 18c 8 19c 9 19c 10 20c 11 20c 12 21c 13 21c 14 22c

**ROUND HEAD IRON BLUED SCREWS**

**85B4480**—Length measured under head. Made with full round head blued finish. (Give size.)

Length	No.	Price Gross	Per Doz.
1/2 in.	3	11c	2c
3/4 in.	4	13c	2c
1 in.	5	14c	2c
1 1/4 in.	6	15c	2c
1 1/2 in.	7	16c	2c
1 3/4 in.	8	17c	2c
2 in.	9	18c	2c
2 1/4 in.	10	19c	2c
2 1/2 in.	11	20c	2c
2 3/4 in.	12	21c	2c
3 in.	13	22c	2c
3 1/4 in.	14	23c	2c
3 1/2 in.	15	24c	2c
3 3/4 in.	16	25c	2c
4 in.	17	26c	2c
4 1/4 in.	18	27c	2c
4 1/2 in.	19	28c	2c
4 3/4 in.	20	29c	2c
5 in.	21	30c	2c
5 1/4 in.	22	31c	2c
5 1/2 in.	23	32c	2c

**FLAT HEAD BRASS SCREWS**

**85B4482**—Made of solid brass. The size of the screw is the same as illustration of iron screws, shown above. (Give size.)

Length	No.	Per Gross	Price 1 doz.
1/2 in.	3	19c	3c
3/4 in.	4	20c	3c
1 in.	5	21c	3c
1 1/4 in.	6	22c	3c
1 1/2 in.	7	23c	3c
1 3/4 in.	8	24c	3c
2 in.	9	25c	3c
2 1/4 in.	10	26c	3c
2 1/2 in.	11	27c	3c
2 3/4 in.	12	28c	3c
3 in.	13	29c	3c
3 1/4 in.	14	30c	3c
3 1/2 in.	15	31c	3c
3 3/4 in.	16	32c	3c
4 in.	17	33c	3c
4 1/4 in.	18	34c	3c
4 1/2 in.	19	35c	3c
4 3/4 in.	20	36c	3c
5 in.	21	37c	3c
5 1/4 in.	22	38c	3c
5 1/2 in.	23	39c	3c
5 3/4 in.	24	40c	3c
6 in.	25	41c	3c
6 1/4 in.	26	42c	3c
6 1/2 in.	27	43c	3c
6 3/4 in.	28	44c	3c
7 in.	29	45c	3c
7 1/4 in.	30	46c	3c
7 1/2 in.	31	47c	3c
7 3/4 in.	32	48c	3c
8 in.	33	49c	3c
8 1/4 in.	34	50c	3c
8 1/2 in.	35	51c	3c
8 3/4 in.	36	52c	3c
9 in.	37	53c	3c
9 1/4 in.	38	54c	3c
9 1/2 in.	39	55c	3c
9 3/4 in.	40	56c	3c
10 in.	41	57c	3c
10 1/4 in.	42	58c	3c
10 1/2 in.	43	59c	3c
10 3/4 in.	44	60c	3c
11 in.	45	61c	3c
11 1/4 in.	46	62c	3c
11 1/2 in.	47	63c	3c
11 3/4 in.	48	64c	3c
12 in.	49	65c	3c

**FLAT HEAD JAPANESE SCREWS**

**85B4476**—Wts. range from 1 to 2 lb. gross.

Length	No.	Gross	Doz.
1 in.	10	20c	3c
1 1/4 in.	11	22c	3c
1 1/2 in.	12	24c	3c
1 3/4 in.	13	26c	3c
2 in.	14	28c	3c
2 1/4 in.	15	30c	3c
2 1/2 in.	16	32c	3c
2 3/4 in.	17	34c	3c
3 in.	18	36c	3c
3 1/4 in.	19	38c	3c
3 1/2 in.	20	40c	3c
3 3/4 in.	21	42c	3c
4 in.	22	44c	3c
4 1/4 in.	23	46c	3c
4 1/2 in.	24	48c	3c
4 3/4 in.	25	50c	3c
5 in.	26	52c	3c
5 1/4 in.	27	54c	3c
5 1/2 in.	28	56c	3c
5 3/4 in.	29	58c	3c
6 in.	30	60c	3c

**DOMES OF SILENCE CASTERS**

**85B4402**—Made of special steel, hardened and polished. Finely nickel-plated. Slide easily. Will not mar the floor. Easily attached and the prongs hold securely. Drive them on with a hammer. Wt., set, 1 oz. (Give size.) Diam., in. 1/2 3/4 1 1 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 10 1/2 11 11 1/2 12 12 1/2 13 13 1/2 14 14 1/2 15 15 1/2 16 16 1/2 17 17 1/2 18 18 1/2 19 19 1/2 20 20 1/2 21 21 1/2 22 22 1/2 23 23 1/2 24 24 1/2 25 25 1/2 26 26 1/2 27 27 1/2 28 28 1/2 29 29 1/2 30 30 1/2 31 31 1/2 32 32 1/2 33 33 1/2 34 34 1/2 35 35 1/2 36 36 1/2 37 37 1/2 38 38 1/2 39 39 1/2 40 40 1/2 41 41 1/2 42 42 1/2 43 43 1/2 44 44 1/2 45 45 1/2 46 46 1/2 47 47 1/2 48 48 1/2 49 49 1/2 50 50 1/2 51 51 1/2 52 52 1/2 53 53 1/2 54 54 1/2 55 55 1/2 56 56 1/2 57 57 1/2 58 58 1/2 59 59 1/2 60 60 1/2 61 61 1/2 62 62 1/2 63 63 1/2 64 64 1/2 65 65 1/2 66 66 1/2 67 67 1/2 68 68 1/2 69 69 1/2 70 70 1/2 71 71 1/2 72 72 1/2 73 73 1/2 74 74 1/2 75 75 1/2 76 76 1/2 77 77 1/2 78 78 1/2 79 79 1/2 80 80 1/2 81 81 1/2 82 82 1/2 83 83 1/2 84 84 1/2 85 85 1/2 86 86 1/2 87 87 1/2 88 88 1/2 89 89 1/2 90 90 1/2 91 91 1/2 92 92 1/2 93 93 1/2 94 94 1/2 95 95 1/2 96 96 1/2 97 97 1/2 98 98 1/2 99 99 1/2 100 100 1/2 101 101 1/2 102 102 1/2 103 103 1/2 104 104 1/2 105 105 1/2 106 106 1/2 107 107 1/2 108 108 1/2 109 109 1/2 110 110 1/2 111 111 1/2 112 112 1/2 113 113 1/2 114 114 1/2 115 115 1/2 116 116 1/2 117 117 1/2 118 118 1/2 119 119 1/2 120 120 1/2 121 121 1/2 122 122 1/2 123 123 1/2 124 124 1/2 125 125 1/2 126 126 1/2 127 127 1/2 128 128 1/2 129 129 1/2 130 130 1/2 131 131 1/2 132 132 1/2 133 133 1/2 134 134 1/2 135 135 1/2 136 136 1/2 137 137 1/2 138 138 1/2 139 139 1/2 140 140 1/2 141 141 1/2 142 142 1/2 143 143 1/2 144 144 1/2 145 145 1/2 146 146 1/2 147 147 1/2 148 148 1/2 149 149 1/2 150 150 1/2 151 151 1/2 152 152 1/2 153 153 1/2 154 154 1/2 155 155 1/2 156 156 1/2 157 157 1/2 158 158 1/2 159 159 1/2 160 160 1/2 161 161 1/2 162 162 1/2 163 163 1/2 164 164 1/2 165 165 1/2 166 166 1/2 167 167 1/2 168 168 1/2 169 169 1/2 170 170 1/2 171 171 1/2 172 172 1/2 173 173 1/2 174 174 1/2 175 175 1/2 176 176 1/2 177 177 1/2 178 178 1/2 179 179 1/2 180 180 1/2 181 181 1/2 182 182 1/2 183 183 1/2 184 184 1/2 185 185 1/2 186 186 1/2 187 187 1/2 188 188 1/2 189 189 1/2 190 190 1/2 191 191 1/2 192 192 1/2 193 193 1/2 194 194 1/2 195 195 1/2 196 196 1/2 197 197 1/2 198 198 1/2 199 199 1/2 200 200 1/2 201 201 1/2 202 202 1/2 203 203 1/2 204 204 1/2 205 205 1/2 206 206 1/2 207 207 1/2 208 208 1/2 209 209 1/2 210 210 1/2 211 211 1/2 212 212 1/2 213 213 1/2 214 214 1/2 215 215 1/2 216 216 1/2 217 217 1/2 218 218 1/2 219 219 1/2 220 220 1/2 221 221 1/2 222 222 1/2 223 223 1/2 224 224 1/2 225 225 1/2 226 226 1/2 227 227 1/2 228 228 1/2 229 229 1/2 230 230 1/2 231 231 1/2 232 232 1/2 233 233 1/2 234 234 1/2 235 235 1/2 236 236 1/2 237 237 1/2 238 238 1/2 239 239 1/2 240 240 1/2 241 241 1/2 242 242 1/2 243 243 1/2 244 244 1/2 245 245 1/2 246 246 1/2 247 247 1/2 248 248 1/2 249 249 1/2 250 250 1/2 251 251 1/2 252 252 1/2 253 253 1/2 254 254 1/2 255 255 1/2 256 256 1/2 257 257 1/2 258 258 1/2 259 259 1/2 260 260 1/2 261 261 1/2 262 262 1/2 263 263 1/2 264 264 1/2 265 265 1/2 266 266 1/2 267 267 1/2 268 268 1/2 269 269 1/2 270 270 1/2 271 271 1/2 272 272 1/2 273 273 1/2 274 274 1/2 275 275 1/2 276 276 1/2 277 277 1/2 278 278 1/2 279 279 1/2 280 280 1/2 281 281 1/2 282 282 1/2 283 283 1/2 284 284 1/2 285 285 1/2 286 286 1/2 287 287 1/2 288 288 1/2 289 289 1/2 290 290 1/2 291 291 1/2 292 292 1/2 293 293 1/2 294 294 1/2 295 295 1/2 296 296 1/2 297 297 1/2 298 298 1/2 299 299 1/2 300 300 1/2 301 301 1/2 302 302 1/2 303 303 1/2 304 304 1/2 305 305 1/2 306 306 1/2 307 307 1/2 308 308 1/2 309 309 1/2 310 310 1/2 311 311 1/2 312 312 1/2 313 313 1/2 314 314 1/2 315 315 1/2 316 316 1/2 317 317 1/2 318 318 1/2 319 319 1/2 320 320 1/2 321 321 1/2 322 322 1/2 323 323 1/2 324 324 1/2 325 325 1/2 326 326 1/2 327 327 1/2 328 328 1/2 329 329 1/2 330 330 1/2 331 331 1/2 332 332 1/2 333 333 1/2 334 334 1/2 335 335 1/2 336 336 1/2 337 337 1/2 338 338 1/2 339 339 1/2 340 340 1/2 341



# FINE VALUES IN STANDARD PADLOCKS

## POPULAR LOW PRICED PADLOCKS

## KEYLESS COMBINATION PADLOCKS

## STRONG DURABLE STEEL PADLOCK



**Wrought Steel. Width, 2 in.**  
**85B3950**—Wrought Steel case. Ivory black finish. Malleable self-locking shackle. Two flat steel keys. Width of lock, 2 in. Weight, 4 oz. Each. . . . . **8c**  
**85B3951**—Wrought brass. Same style as above. Two flat steel keys. Each. . . . . **18c**  
**85B3952**—Large, wrought steel. Ivory black finish. Brass inside works. Two flat steel keys. Width, 2 1/2 in. Wt., 7 oz. Each. . . . . **15c**

Solid brass. Neat and very popular. Operates by turning an ingenious combination dial the proper distance in both directions. No clicks to count or springs to get out of order. No keys to carry, forget or to lose. Considered the best combination lock on the market. All locks have different combinations.



**85B3992**—Diameter of body, 1 1/4 in. A very neat but strong little lock. Useful for wardrobes, cupboards, tool chests, etc. Wt., 4 oz. Each. . . . . **65c**  
**85B3993**—Diameter of body, 1 1/2 in. A popular size. Extensively used by motorists to lock spare tires. Fine for tool sheds, barns, etc. Wt., 8 oz. Each. . . . . **85c**

Excellent value. Width, 2 1/4 in.  
**85B3966**—Wrought steel case and shackle. Neatly joggled black. Self-locking. Two corrugated flat steel keys. The mechanism is strong, well constructed, and will not readily get out of order. Width, 2 1/4 in. Wt., 7 oz. A most excellent lock for the money and enjoys a large sale. Worth at retail almost twice our price. Each. . . . . **25c**



### WROUGHT STEEL PADLOCK BRASS PLATED

**85B3955**—Wrought steel case. Brass plated. Malleable iron shackle. Width of lock, 2 1/4 in. With two keys that fit on the pin in key hole. A neat, serviceable lock and an excellent value for the money. Wt., 6 oz. Each. . . . . **12c**

### SECURE SIX LEVER PADLOCK WROUGHT STEEL

**85B3958**—Wrought steel case. Width, 2 in. Black japanned. Heavy malleable shackle. Six secure levers. Two keys. Wt., 7 oz. Each. . . . . **18c**  
**85B3959**—Large size. Width, 2 1/2 in. Same as above. Wt., 12 oz. Each. . . . . **25c**

### STEEL SIX LEVER LOCK WITH CHAIN

**85B3962**—Wrought Steel case with steel chain. Black japanned finish. Heavy malleable self-locking shackle. Six secure levers in works. Two keys. Width, 2 in. Wt., 8 oz. Each. . . . . **28c**

### SECURE SIX LEVER LOCK SOLID BRASS

**85B3964**—Wrought Brass case. Bright brass finish. With solid brass self-locking shackle. Six secure levers in works. Two flat steel keys. A strong, well made brass padlock. Non-rusting works. Width, of case, 2 in. Wt., 8 oz. Each. . . . . **35c**

### JUMBO MALLEABLE PADLOCK EXTRA HEAVY

**85B3970**—Extra large and heavy, malleable iron case. Black japanned. Malleable self-locking shackle. Two keys. Width of case, 2 1/2 in. Weight, 12 oz. Each. . . . . **20c**

### SECURE SIX LEVER LOCK CAST BRONZE

**85B3972**—Cast Bronze case, with bronze self-locking shackle. Six secure levers in works. Two flat steel keys. Regular 75c retail value. A very massive and substantial lock. Width of case, 2 1/4 in. Wt., 8 oz. Each. . . . . **40c**

### BRONZE SIX LEVER LOCK

**85B3973**—Cast Bronze case with steel chain. Bronze shackle. Six secure levers. Two flat keys. Width, 4 1/2 in. Wt., 9 oz. Each. . . . . **45c**

### BRONZE PADLOCK

**85B3975**—With quarter turn. Self locking steel shackle. Two keys. Width, 2 in. Wt., 8 oz. Each. . . . . **28c**

### SECURE CYLINDER PADLOCK YALE PATTERN

**85B3983**—Rustless, black finished heavy iron case, with brass chain. Bronze self-locking shackle. Holds key until locked. Two flat keys. Width, 2 in. Wt., 14 oz. Each. . . . . **80c**

### BRONZE CYLINDER LOCK YALE PATTERN

**85B3985**—Cast bronze case. Extra heavy. Double locking heavy steel shackle. Locks on pin-tumbler cylinder. Two flat keys. Width of case, 2 in. Wt., 14 oz. Each. . . . . **145c**

### BRASS R. F. D. PADLOCK

**85B3988**—Cast brass case with brass chain. Double locking shackle. Anti-rust steel spring. Two keys. One master key with each dozen locks. Width, 1 1/2 in. Wt., each, 4 oz. Each. . . . . **25c**  
Per doz. . . . . **2.50**

### R. F. D. PADLOCK

**85B3990**—Wrought Steel Case, black japanned finish. With a galvanized steel self-locking shackle. Two keys. One master key with each dozen locks. Width, 1 1/2 in. Weight, each, 4 oz. Each. . . . . **18c** Per dozen. . . . . **\$2.00**

## CONVENIENT DURABLE FOOT SCRAPERS

### IMPROVED STEEL FOOT SCRAPER WITH TWO BRUSHES

**85B3795**—Made of wrought steel. Nicely japanned black, rust resisting. Brushes on both sides, which are pressed against the shoe by a spring. Cleans the entire shoe, bottom and sides, from toe to heel. Has hinged joint, so it can be raised for sweeping underneath. Size, 10x8 1/4 in. Wt., 2 1/2 lbs. Each. . . . . **60c**

### STEEL FOOT SCRAPER WITH TWO BRUSHES

**85B3793**—Cleans the bottom and sides of the shoe in one operation. Japanned wrought steel frame. Rust-resisting. Fitted with a serviceable bristle brush on both sides. Excellent value. Width, 6 1/2 in. Weight, 1 1/2 lbs. Each. . . . . **26c**

### WROUGHT STEEL FOOT SCRAPER

**85B3790**—Made of stiff Sheet Steel. Nicely japanned black. Rust-resisting. A good, low priced, plain, foot scraper. Width, 6 in. Height, 3 1/4 in. Wt., 9 oz. Each. . . . . **7c**

# RURAL AND HOUSE MAIL BOXES

### RURAL MAIL BOX



Door on Top Round Bottom

**85B4745**—Made of heavy galvanized sheet steel. It is dust, snow and rain proof and convenient for both the carrier and patron. Has a signal hung above the box where it should be. The lid always closes itself and cannot freeze shut. Fitted with hasp for padlock. Length, 18 in. Width, 6 in. Wt., each, 5 1/2 lbs. Without padlock. Usual \$1.00 value. Each. . . . . **\$0.50**  
Per dozen . . . . . **5.40**

### POPULAR



**85B4740**—One of the most popular and most satisfactory mail boxes on the market. Made of heavy galvanized sheet steel. Extra large and spacious. Attractively painted with rust-resisting aluminum paint. Well made, with tight fitting joints and is weather proof. Has an end opening door, with a covered slot so that mail can be inserted without opening the box. Fitted with hasp for padlock. Has a signal on top where it can be readily seen. Worth fully \$1.00. You will agree with us that this box is an excellent value. Length, 18 in.; width, 6 in.; height, 8 in. Wt., each, 5 1/2 lbs. Without padlock. Each. . . . . **\$0.55**  
Per dozen . . . . . **\$5.85**

### RURAL MAIL BOX

### RURAL MAIL BOX



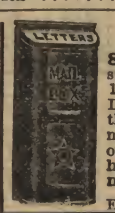
Door on Top Flat Bottom

**85B4742**—Large square mail box, made of heavy galvanized steel. Painted with rust-resisting aluminum paint. Fitted with a signal which is raised automatically, when the cover is opened. Substantially constructed, with no rough edges. Fitted with hasp for padlock. Length, 18 1/2 in. Width, 6 1/2 in. Height, at the front, 5 1/2 in.; at the back, 7 in. The top slopes towards the front. Wt., each, 5 1/2 lbs. Without padlock. Each. . . . . **\$0.50**  
Per dozen . . . . . **5.65**

### HOUSE MAIL BOX DULL BLACK FINISH



**85B4726**—Made of heavy sheet steel, attractive, dull black rust-resisting finish. Height, 11 1/2 in. Width, 6 in. Depth, 2 1/2 in. Covered letter slot. Mail cannot be removed without unlocking. Self-locking door. Two flat keys. Spring clip for holding papers. Glass panel with card holder. Wt., about 2 lbs. Each. . . . . **80c**



### HOUSE MAIL BOX

**85B4728**—Made of sheet steel, black japanned. Height, 10 1/2 in. Width, 5 1/2 in. Depth, 2 1/2 in. The slot at the top is so constructed that mail cannot be removed without unlocking the box. Box has eyes for padlock. Lock not included. Wt., 15 oz. Each. . . . . **20c**



### HOUSE MAIL BOX

**85B4730**—Made of heavy sheet steel, black japanned. Height, 12 in. Width, 5 1/2 in. Depth, 2 1/2 in. Fitted with a secure lock. Two flat keys. The slot at the top, has a hinged cover and is so constructed that mail cannot be removed without unlocking the box. Has a spring clip at bottom, for holding papers. Wt., 1 1/2 lbs. Each. . . . . **48c**

### CAST ALUMINUM HOUSE NUMBERS

**85B3288**—Polished Solid Cast Aluminum. Always bright and cannot rust. Very useful for making signs, putting name on boats, etc. Easily attached, having tacks cast into the back. One size only. Height, 3 in. Letters A to Z. State letters wanted. Weight, each, 1/2 oz. Per dozen . . . . . **80c**  
Each. . . . . **7c**  
**85B3289**—Aluminum numerals. One size only. Height, 3 in. Letters A to Z. State letters wanted. Weight, each, 1/2 oz. Per dozen . . . . . **18c** Each. . . . . **2c**

# GENUINE STEEL ALLOY SCHOOL AND CHURCH BELLS

## OUR GUARANTEE ON STEEL ALLOY BELLS

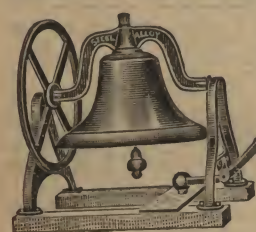
We guarantee that every article sold will be as illustrated and described in our catalogue, will arrive in good condition; will serve its intended purpose; and will be satisfactory to you.  
You may always exchange for other articles or have your money back, including, in either case, the transportation charges which you have paid.  
In addition we guarantee our Steel Alloy Bells against breakage for a period of five years.  
We will replace, without expense to you, any Genuine Steel Alloy bell that breaks within that time after date of purchase. It is a rare thing for one of our bells to break and after the first year the chances for its breaking are very much decreased. The bell will always improve with use.  
It is our desire to make trading with us so easy, so profitable, and so satisfactory, that you will be pleased not only with the goods received, but also with our service and our entire method of dealing.



## WHAT PLEASSED PURCHASERS SAY ABOUT OUR CHURCH BELLS

Montgomery Ward & Co.  
The Steel Alloy Church Bell has been received and now is up and has been tried. I have been asked, "What did you pay for such a bell?" I would tell them and they would be greatly surprised. Everybody in the vicinity seems to be even more glad than we are and we are highly pleased with our bell. I am as ever, (name furnished on request).  
Montgomery Ward & Co.  
Gentlemen:—We are well pleased with the Steel Alloy Church Bell purchased from you. The church people are very well pleased and one and all unite in praising it.  
It is by far the best bell in our town. Yours truly, (name furnished on request).

## GENUINE STEEL ALLOY SCHOOL BELLS



Considered the best sounding and most satisfactory low priced bell for schools, small churches, fire houses, factories, etc. Made of a peculiar composition metal, much cheaper than brass, but with a fine, pleasing sound.  
For large churches, we recommend the larger size steel alloy bells shown at the right. Prices are for bells complete with wood sills and among the very best made. Must not be compared with the ordinary iron bells found on the market. Our bells give a fine volume of sound and will not become harsh with use. Will give almost as good satisfaction as the best composition copper and tin bells selling at prices many times higher. Give size.

Number 285B4652			
Diam. Bell, in.	Approx. Ship. wt., complete,	Price Each	
20	165 lbs.	\$ 7.20	
22	205 lbs.	9.00	
24	250 lbs.	11.25	
26	350 lbs.	18.00	
28	450 lbs.	22.50	

## FAMOUS GENUINE STEEL ALLOY CHURCH BELLS



Since our Matchless Steel Alloy Bells have been perfected, solid brass or bronze bells are no longer considered the only advisable and satisfactory kind for schools and churches. Our Steel Alloy Bells are of a peculiar composition, cheaper than brass, but with a rich, pleasing sound. The size and weight of bells control the tone, and the depth and purity of tone is increased as the weight is increased and the size enlarged. For much less money than a

small brass bell would cost, you can buy a larger Steel Alloy bell, which produces a sweet, melodious, far-reaching sound.  
Prices are for bells complete with wood sills, iron wheel and tolling hammer. Church bells 36 inches and larger are fitted with easy turning roller bearings. These bells are the Genuine Steel Alloy and are among the very best made. Must not be compared with the ordinary iron bells that are on the market.

NUMBER 285B4650			
Diam. Bell	Approx. Wt. Bell	Approx. Ship. Wt., complete,	Price Each
30 inches	336 lbs.	570 lbs.	\$ 29.25
32 inches	388 lbs.	640 lbs.	33.70
34 inches	487 lbs.	765 lbs.	40.50
36 inches	605 lbs.	950 lbs.	49.50
38 inches	650 lbs.	1,010 lbs.	56.25
40 inches	800 lbs.	1,300 lbs.	67.50
42 inches	915 lbs.	1,480 lbs.	74.25
44 inches	1,062 lbs.	1,790 lbs.	90.00
48 inches	1,430 lbs.	2,280 lbs.	112.50

## CRYSTAL METAL CHURCH BELLS

While our celebrated Steel Alloy Bells are sold at absolutely as low a price as is consistent with their high quality, yet, if you require a bell at a still lower cost we offer our Crystal Metal Bells. They do not possess quite the richness and volume of tone which have made our Steel Alloy Bells famous, but we guarantee our Crystal Metal Bells against breakage for a period of five years. We will replace without expense to you, any Crystal Metal Bell that breaks within that time.

NUMBER 285B4654			
Diam. Bell, in.	Approx. Ship. wt., complete, lbs.	Without Tolling Hammer	With Tolling Hammer
20	165	\$ 6.00	.....
22	205	7.55	.....
24	250	9.55	\$10.85
26	350	13.35	14.65
28	450	18.45	19.90
30	570	23.10	24.15
32	640	28.35	29.60
34	765	36.15	38.50
36	950	43.98	46.35
38	1,010	50.60	52.95
40	1,300	57.50	59.45
42	1,480	67.50	69.45
44	1,790	97.50	99.50



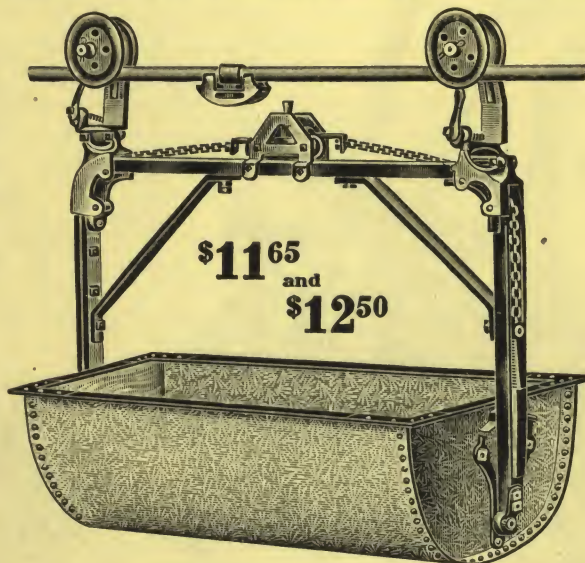
**I**T'S all in the knowing. When business was new and methods were crude, most things went by guess-work. But today we leave nothing to chance. **WE KNOW WHAT WE BUY.** We have our own chemists and testers—who see that our rigid specifications to manufacturers are absolutely complied with at all times. **WE KNOW WHAT WE SELL.** And that's the reason we stand squarely back of our merchandise—with an insistent guarantee and a responsible reputation.

## Climax Litter Carriers

**D**RUDGERY and hard work in your barn cut in two. See Farm Implement pages following for complete line of Automatic Raise and Lower and Adjustable Feed and Litter Carriers at surprisingly low prices.

Don't fail to look over our barn equipment. Your barn fitted with our steel Stalls, steel Stanchions, and our Climax Litter Carrier outfit insures cleanliness with the least labor.

**C**LIMAX is a brand of quality in our line of Farm Machinery. When you buy a Climax you are not paying excessive prices for a high sounding trade mark, but you are getting the benefit of careful and expert discrimination. The name Climax is used only on such tools and machines as have been thoroughly tried and tested in comparison with the best of their kind.



**I**F YOU are a Hog Raiser, Dairyman, or Poultryman, it is **GOOD** business to look over our excellent lines of food preparing, watering, and other devices. The improved health and thrift of your stock and poultry will pay a big return on your investment. No fads or experiments; practical time and feed saving devices—every one of them.

Our Climax Adjustable, Climax Raise and Lower, and Climax Feed Carrier Outfits and Parts are offered to you in the belief that there are no other litter or feed carriers, that can be purchased at our prices, equal to them. Our familiarity with many well known makes of carriers on the market has proven to our satisfaction that no matter what prices you pay, there is none, to our knowledge, that has more good features for the easy and convenient handling of feed, litter, silage and other materials.

Either style Climax will operate on all rod track, all steel rail track, or combination rod and steel rail track. We especially recommend steel rail track for general use in barns. It gives a solid, level bearing for carrier, eliminating sagging and allowing the car to stand at any desired point, without applying brake. Outside the barn, rod track may be used with either right or left hand splice connections to switch from the steel rail to the rod track.

**T**HE stage-coach had to give way to the express train—BECAUSE IT WAS TOO SLOW. The old method of distributing merchandise had to give way to the new—because its slow processes failed to quickly get new ideas and creations from the places where they originate, to the places where they are needed. This catalogue gets the latest of the best styles to you—while they are still styles. **IT IS THE MODERN WAY.**

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### The Old Freight Argument

It's an old story, this freight argument. It's a bugaboo argument. When you are told that you don't save much in the long run by buying here, because you pay the freight, just keep in mind that you've got to do that when you buy anywhere, even if you live across the street from the store you buy from.

The difference is this: When you buy from us you know exactly what the freight amounts to, because you pay the bill yourself.

Buying any other way, you don't know what the freight is, to be sure, but you pay for it just the same—often you pay a profit on that, too.

### A Good Top Buggy is a Handy Farm Need

We've been working hard on two or three special new designs that ought to be favorites—they're really utility models, with the price way down—around \$50.00 for a standard buggy.



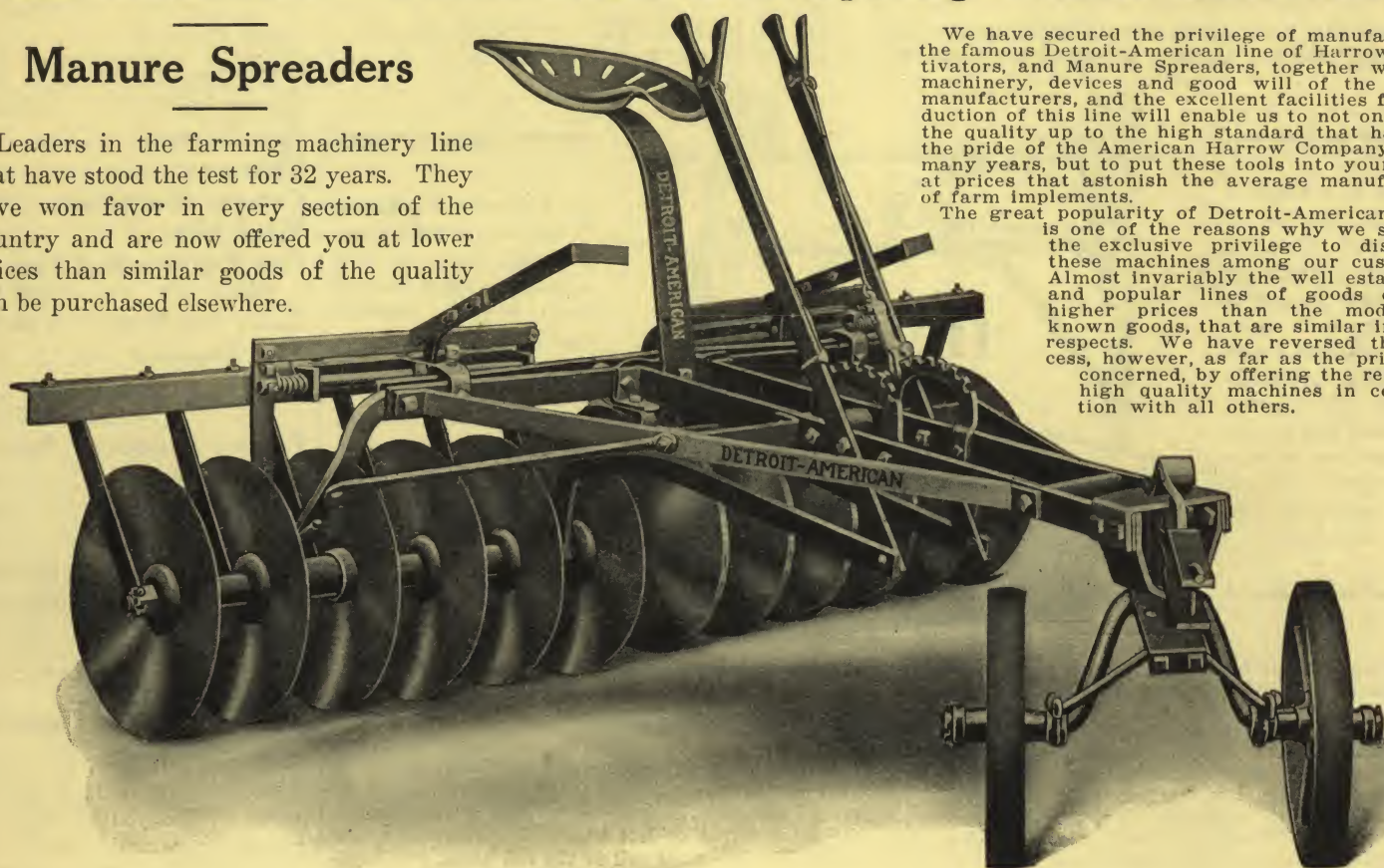
**E**VERYONE has something to sell. If it's not merchandise, it is service, or produce, or resources. **WE ARE ALL SELLERS.** And if we are good sellers we know that we must sell **HONEST VALUE** and **FULL MEASURE**—or we will not sell again in the same place. We do these things as a matter of self-interest. It is just common business sense—the application of the law of the survival of the fittest. **YOU CAN'T BUILD UP A TRADE BY MISREPRESENTING THE THINGS YOU HAVE FOR SALE. NEITHER CAN WE.**

## Detroit-American

### Disc Harrows — Pivot Axle and Spring Tooth Cultivators

#### Manure Spreaders

Leaders in the farming machinery line that have stood the test for 32 years. They have won favor in every section of the country and are now offered you at lower prices than similar goods of the quality can be purchased elsewhere.



We have secured the privilege of manufacturing the famous Detroit-American line of Harrows, Cultivators, and Manure Spreaders, together with the machinery, devices and good will of the former manufacturers, and the excellent facilities for production of this line will enable us to not only keep the quality up to the high standard that has been the pride of the American Harrow Company for so many years, but to put these tools into your hands at prices that astonish the average manufacturer of farm implements.

The great popularity of Detroit-American goods is one of the reasons why we secured the exclusive privilege to distribute these machines among our customers. Almost invariably the well established and popular lines of goods demand higher prices than the moderately known goods, that are similar in many respects. We have reversed the process, however, as far as the prices are concerned, by offering the reputable high quality machines in competition with all others.

\$17.95 for 4-foot cut, 8-disc harrow, complete with tongueless truck, up to \$29.00 for the 8-foot cut, 16-disc harrow with truck. Compare these prices with any make of disc harrows in your home market, or any place where disc harrows are sold, and you will find they can't be beat.

We are just as anxious that you make comparison of the quality, including steel construction, the comparatively light draft, satisfactory operation with any other makes, and we feel just as convinced that the quality as well as the price will also surprise you.

## Detroit-American Cultivators

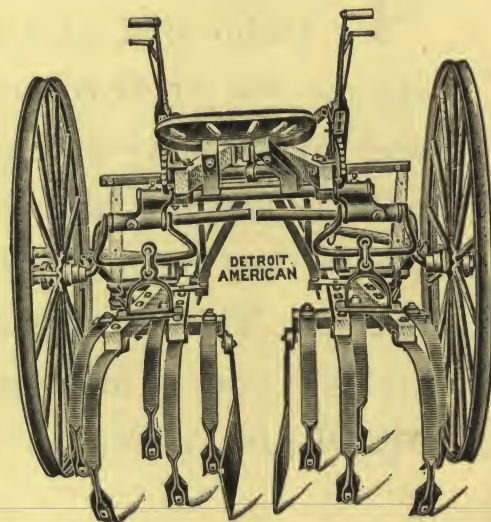
Detroit-American Cultivators include a range of styles and kinds suitable for practical corn cultivation, and adaptable for cultivation of all vegetables that are planted in rows.

Pivot axle shovel gang cultivators with approved spring trip. Especially desirable for hilly or uneven land. Combination spring tooth cultivators and harrows; bean Harvester attachment to cultivators; combination spring tooth cultivator, harrow and seeder, and a large assortment of shovel gangs for every requirement of the soil you work or the crops you cultivate.

To improve our lines is one of the things we are constantly striving for. In saying this, we do not want to imply that our former line of farm implements was not good, or that it was not an exceptional value for the price we asked. By taking over this new line we have standardized our Harrows, Cultivators and Spreaders and secured a uniformly higher standard of efficiency throughout. Just as, during the last two years, we have spent a great deal of time and effort and a great amount of money to make our service more satisfactory and enable us to put your orders on a time-table schedule—just so we have built up this farm implement line to a point where we feel sure that you will be pleased, not only with the goods received, but also with our service and our entire method of dealing.

We could not expect your continued patronage if we were not in position to give you as near or nearer one hundred cents in value for every dollar of price obtainable. We confidently believe that you will become a permanent customer if you buy the implements you need from our line of farming machinery. We invite side by side test and trials with other similar tools regardless of price.

The following pages of farming machinery include the Detroit-American lines; the new Climax line of Potato Machinery, second to none; a full line of seeding machinery; sprayers; haying tools; and other farming implements. It is worth your while to study these prices very carefully.





Parcel Post Wrapping Twine

Made of Hemp. Very strong. For wrapping purposes. Especially desirable for Parcel Post packages. Averages about 450 ft. per lb. Cream color.

88B10-Price, per 1/2 lb. ball, ...10c  
88B12-Price, per 10 lbs. (20 balls) ...\$1.80  
188B14-Price, for bale, 150 lbs. (300 balls) ...\$25.50

Jute Wrapping Twine

Three-ply. Unrolled Jute Wrapping Twine. Strong and pliable. The best quality. Especially suitable for market gardeners, for tying up vegetable bunches, and wrapping, 700 to 800 ft. per lb. Put up in balls of 1/2 pound each.

88B18-Price, per lb. (2 balls) ...17c  
188B20-Price, per lb. in bales of 150 lbs. (300 balls) ...16c

Wool Twine

Finished and Unfinished. Three-ply, for tying wool bales, tobacco, vines, etc. Put up in balls averaging 1 pound of about 235 feet.

88B24-Unfinished. Per ball ...10c  
88B26-Finished. Per ball ...11c

Mower and Reaper Sections

Oil tempered, steel machine sections, standard in quality and size. Put up in boxes of ten sections with 20 rivets. We do not break boxes. With your order send a pencil sketch showing exact size of sections, also position of the rivet holes. Give name of machine and size of section.

**SMOOTH. FOR MOWERS**  
Buckeye, 3x3 1/2 in.; Champion, 3x3 1/2 in.; 3x3 3/4 in.; 3x3 1/2 in.; Deering, 3x3 1/2 in. and 3x3 3/4 in.; Emerson, 3x3 1/2 in.; Johnson, 3x3 1/2 in.; King of the Meadow, 3x3 1/2 in.; McCormick, 3x3 1/2 in.; Milwaukee, 3x3 1/2 in.; Osborn, 3x3 1/2 in.; P. or L. P., 3x3 1/2 in.; Plano, 3x3 1/2 in.; Wood, 3x3 1/2 in.

**SERRATED FOR REAPERS**  
Champion, 3x2 1/2 in.; Deering, 3x2 1/2 in.; McCormick, 3x2 1/2 in.; Milwaukee, 3x2 1/2 in.; Osborn, 3x2 1/2 in.; Plano, 3x2 1/2 in.; Wood, 3x2 1/2 in.

88B82-Smooth, box of 10 with rivets, ...30c  
88B84-Serrated, box of 10 with rivets, ...32c

MOWER AND REAPER KNIVES

Tempered Steel. Ground Knives, complete with head. Can be furnished to fit any of the well known makes. Odd knives can be shipped direct from factory, purchaser paying charges. Be sure to give name of the machine and number and letter on the old knife head. If you cannot give number, send sketch of the old head; also give size of the sections.

188B90-Smooth, 4 1/2-ft. knife, 18 sections. Shipping wt., 10 lbs. ...\$1.70  
188B92-Smooth, 5-ft. knife, 20 sections. Shipping wt., 11 lbs. ...\$1.90  
188B94-Smooth, 6-ft. knife, 24 sections. Shipping wt., 13 1/2 lbs. ...\$2.20

MALLEABLE KNIFE GUARDS

Complete with guard plates. We carry a large stock to fit the well known machines. Odd guards can be shipped direct from factory, customer paying parcel post charge. Give name of machine and number, and letter on the old guard, otherwise we can't fill order promptly. Weight, 1 lb.

88B178-Price, with plate, ...18c

GUARD PLATES

Made of high quality steel. Put up in boxes of ten plates, with 20 rivets. Give name of machine, number and letter on guards and send a paper pattern with size of plate showing the position of rivet holes. We do not break boxes. Weight, per box, 14 oz.

88B183-Price, box of ten, ...26c

KNIFE HEADS

For the well known makes of Mower or Reaper. Either malleable or steel head. Give name of the machine, number and letter on the head, and in the number, a carefully penciled drawing with all description possible. Average weight, 1 1/2 lbs.

88B188-Malleable head, to fit Deering Mower, ...19c  
88B190-Steel head, to fit Deering Mower, ...35c

SECTION RIVETS

No. 6 or 3/16 inch Section Steel Rivets in one-pound boxes. Can furnish in 1/2 or 3/4-inch length with bung head or with countersunk head. State length and style head wanted. Put up in one-pound boxes. We do not mix packages or sell less than a box.

88B195-Per box, countersunk, ...6c  
88B197-Per box, bung head, ...7c

GUARD PLATE RIVETS

No. 6 Steel Rivets for guard plates, 3/16 in., length, 1 1/4 in., with countersunk heads in 1 lb. boxes.

88B202-Price, per box, ...8c

Link Chain Steel Belting

For use on mowers, binders, corn shellers, feed cutters, etc. When ordering chain for repairs, be sure to give number of chain; also lay one link on paper and mark around outside and inside with pencil, showing size and shape of links.

Art. No.	Size No.	Shipping Weights, per ft.	Links per ft.	Working Weight, per ft.	Price per ft.
88B207	25	4 oz.	13.3	75 lbs.	6c
88B209	32	5 oz.	10.4	150 lbs.	6c
88B211	32	6 oz.	8.6	225 lbs.	7c
88B213	34	6 oz.	8.6	225 lbs.	7c
88B215	35	7 oz.	7.4	250 lbs.	7c
88B217	42	9 oz.	5.8	300 lbs.	8c
88B219	45	9 oz.	7.4	350 lbs.	6c
88B221	55	12 oz.	7.4	450 lbs.	9c
88B223	62	16 oz.	7.3	650 lbs.	12c

Cultivator Sweeps

For Riding Cultivators. Adjustable Back to Fit Round Shanks from 1 in. to 1 1/4 in. Our Riding Cultivator Sweeps are made of an excellent quality of crucible steel with adjustable back to fit on round shank cultivator gangs any size from 1 to 1 1/4 in. They are made full sweep, correct shape, drawn and polished. Can be easily and rigidly attached to any round shank of any make of riding cultivator with 1 in. or 1 1/4 in. shanks. Can furnish sweeps with the one style back only for round shanks and 6, 8, 10 or 12 inch width.

188B235-Width, 6 in., full sweep. Shipping wt., 2 lbs. ...30c  
188B237-Width, 8 in., full sweep. Shipping wt., 2 1/2 lbs. ...33c  
188B239-Width, 10 in., full sweep. Shipping wt., 2 1/2 lbs. ...36c  
188B241-Width, 12 in., full sweep. Shipping wt., 3 lbs. ...40c

GRAIN DRILL POINTS

Polished steel, will fit any drill. Not drilled. Shipping weight, 10 oz.

88B250-Main, Each ...9c  
88B252-Reversible, Each ...10c

Pure Manila Rope Long Graded Fibre

Strength tests have proven that there is no better Manila Rope than ours. NO DOUBTFUL MIXTURES. NO SECOND GRADE STOCK. NO INFERIOR FIBRE. OUR MANILA ROPE is the best quality we can buy. All made of strictly Pure Manila Fibre, full size, flexible, long wearing.

We make special prices on cut lengths of 100, 200 and 300-ft. pieces. The saving effected by cutting in these sizes in large quantities at one time enables us to reduce the price over the odd lengths. For any other than the three sizes quoted, the price will be based on our quotations per foot, as each odd size has to be cut to order. We can furnish single lengths up to 1200 feet.

Manila Rope

Per ft.	100 ft.	200 ft.	300 ft.	Size	In.	Strand.	Weight, per 100 ft.	2 1/2 lbs.
188B30	30c	\$0.35	\$0.65	1/4	3	Strand.	Weight, per 100 ft.	4 1/2 lbs.
188B32	30c	.70	1.36	1/2	3	Strand.	Weight, per 100 ft.	5 lbs.
188B34	30c	.95	1.88	3/4	3	Strand.	Weight, per 100 ft.	7 1/2 lbs.
188B36	30c	1.20	2.35	1	3	Strand.	Weight, per 100 ft.	13 1/2 lbs.
188B38	30c	1.95	3.85	1 1/4	3	Strand.	Weight, per 100 ft.	17 lbs.
188B40	30c	2.45	4.85	1 1/2	3	Strand.	Weight, per 100 ft.	19 1/2 lbs.
188B42	30c	2.90	5.75	1 3/4	3	Strand.	Weight, per 100 ft.	22 lbs.
188B44	30c	3.15	6.25	2	3	Strand.	Weight, per 100 ft.	26 lbs.
188B46	30c	3.65	7.25	2 1/4	3	Strand.	Weight, per 100 ft.	27 lbs.
188B48	30c	3.90	7.75	2 1/2	3	Strand.	Weight, per 100 ft.	33 lbs.
188B50	30c	4.40	8.75	3	3	Strand.	Weight, per 100 ft.	42 lbs.
188B52	30c			3 1/4	3	Strand.	Weight, per 100 ft.	42 lbs.
188B54	30c			3 1/2	3	Strand.	Weight, per 100 ft.	42 lbs.
188B56	30c			4	3	Strand.	Weight, per 100 ft.	42 lbs.

White Sisal Rope

Pure No. 1 quality. Clear white sisal, no mixtures. The best we can buy. Carried in stock in three sizes only and cut in any lengths desired.

Price per foot	100 feet	Price per foot	100 feet
188B58	1/3c	30c	Diameter, 1/4 in. 3 Strand. Weight, per 100 ft., 2 1/2 lbs.
188B60	3/5c	65c	Diameter, 1/2 in. 3 Strand. Weight, per 100 ft., 4 1/2 lbs.
188B62	1c	95c	Diameter, 3/4 in. 3 Strand. Weight, per 100 ft., 7 1/2 lbs.

Binder Conveyor Canvases

Made to Fit Only the Machines Listed Below. Full Size and Weight.

Our conveyor canvases or aprons for harvesters are exactly the same in size, shape and construction as the ones received with your binder. Canvas is full weight and size, with sufficient flap to more than cover Slat, Riveted and Stained (not nailed). Always on hand.

The numbers and sizes correspond with numbers and sizes on the canvases received with your machine. When ordering, state number, size and name of machine. Do not order by number and specify a size different from list, as the standard canvases come one size to a number only.

If unable to give old number, give name of machine and length and width of canvas, measuring length from buckle at one end to the last hole in the strap at the other end. Shipping weight, 7 to 18 lbs.

NOTE-With each order for canvases we supply a belt buckle, very strong and effective, and will not injure strap. An excellent little device that will draw up the straps in buckle with little trouble and is easily attached and detached.

Article No. 188B100

P135—Upper elevator, 55x92, '99-07	3.10	H770—6-ft. platform, 38x141, '90-01	3.10
P176—6-ft. platform, 44x138, '99-07	3.50	V226—Lower elevator, 51x100, '94-01	3.10
P177—7-ft. platform, 44x153, '99-07	4.15	V224 1/2—Upper elevator, 41 1/2x96, '94-01	2.60
DEERING			
E1552—Upper and lower elevators, 96x54 1/2, '90-00	2.80	V229—6-ft. platform, 38 1/2x131, '94-01	3.50
E1549—Adjuster, 7 1/2x52, '90-00	.65	B6—Upper elevator, 47 1/2x93, '01	2.60
E1550—6-ft. plat., 47 1/2x144, '90-07	3.55	B68—Lower elevator, 51x97, '01	3.10
E1551—7-ft. plat., 47 1/2x166, '90-07	4.10	B467—6-ft. platform, 45x136, '01	3.55
H3199—Upper elevator, 43x90, '02	2.60	B468—7-ft. platform, 45x160, '01	4.10
H1775—Lower elevator, 50x90, '99	3.05	B469—8-ft. platform, 45x184, '02	4.60
H1772—6-ft. platform, 43 1/2x136, '99	3.50	OSBORNE	
H1773—7-ft. platform, 43 1/2x156, '99	4.05	C2002—Upper elev., 40 1/2x79, '95-06	2.55
H2791—8-ft. platform, 43 1/2x182, '01	4.60	C2003—Lower elev., 43 1/2x82, '95-06	2.80
MILWAUKEE			
S400—Upper elevator, 52 1/2x96, '89-93	2.80	C2008—6-ft. plat., 42 1/2x134, '96-06	3.50
SA400—Upper elevator, 52 1/2x92, '99	2.80	C2009—7-ft. plat., 42 1/2x158, '96-06	4.10
S401—Lower elevator, 52 1/2x94, '99	2.80	C2010—8-ft. plat., 42 1/2x182, '04-06	4.60
S402—6-ft. platform, 42 1/2x137, '89	3.55	C2012—Upper elevator, 48 1/2x87, '05	2.60
S404—7-ft. platform, 42 1/2x162, '92	4.15	C2013—Lower elevator, 51 1/2x90, '05	3.05
H518—Adjuster, 8x49, '88	.65	PLANO	
Do not order sizes different from above, as we do			

Do not order sizes different from above, as we do not carry any other than listed.

Fitted Cultivator Shovels

Complete, with Backs and Bolts to Fit the Leading Makes of Cultivators



No. 2 Back No. 3 Back

Larger illustration shows the different styles of shovels, and smaller showing the different backs that can be furnished on either of the shovels quoted. The two styles of backs illustrated are the kinds most used and the only styles of backs we furnish.

The No. 2 backs on 3x7 1/2 in. shovels will fit 3/4 or 1 in. shank; on all other shovels the No. 2 back will fit 1 in. or 1 1/4 in. shank.

Width of our 3x7 1/2 in. shovels, 3 in.; length, 7 1/2 in. Regularly termed Eagle claws, and regularly supplied in sets of 8 shovels, complete with backs, and straight only.

Width of the 3 1/2x9 shovels, 3 1/2 in.; length, 9 in. Regularly furnished in sets of 6, each set having 3 right and 3 left hand shovels. (Cannot furnish straight shovels in 3 1/2 in.)

Width of 5x10 1/2 in. shovels, 5 in.; length, 10 1/2 in. Four to a set, and regularly furnished one right and one left, and two straight. Two right and two left can be furnished instead of regular, when so specified on order.

Bull tongues, width, 2 in., length, 10 1/2 in. Price quoted is for one only.

Hay Rake Teeth

Made of carefully tempered steel and are of the regulation size and shape. Will fit the following rakes: McCormick, Deering, Osborn, Champion, Plano and Tiger.

In ordering, be certain to state the style of rake that teeth are to be used on. Also state whether the crook is to the right or the left, and send a full sized sketch on paper. Unless you give us this information, we cannot fill the order. We cannot supply any except the styles as given above.

Shipping weight, 2 lbs. 188B275-Price, each 23c

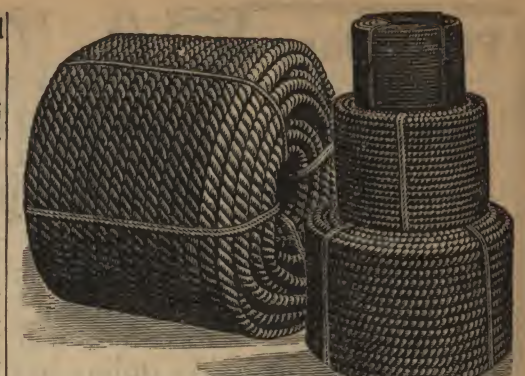
Harvest Machinery Oil

Contains no acids. Specially adapted for implements. Not affected by heat or cold. Lasts twice as long as cheap black oil. Shipping weight, 9 lbs.

88B270-Price, per gallon ...39c

RUBBER GRAIN DRILL TUBES

Weight, each 4 oz. Each 88B259-22x1 1/4 in. ...14c 88B260-24x1 1/4 in. ...15c 88B262-22x2 1/4 in. ...14c 88B264-22x1 3/4 in. ...16c



HAWSER LAID MANILA ROPE

Pure Manila long fibre. Cut to any desired length. Used as well-drilling cable, etc. Prices on larger sizes quoted upon application.

188B64-1/4 in. Hawser Laid, 9 Strand. Price, per ft. ...3 1/2c  
188B66-3/8 in. Hawser Laid, 9 Strand. Price, per ft. ...4c  
188B68-1 in. Hawser Laid, 9 Strand. Price, per ft. ...5c

Pure Manila. Cut to any desired length. Is hard laid, will not kink, and runs free.

188B70-7/16 in. 3 Strand. Price, per ft. ...1 1/2c  
188B72-7/16 in. 4 Strand. Price, per ft. ...1 1/2c

Loose Fit Binder Covers

Made of Closely Woven Mildew-Proof White Duck. Complete with eyelets and ropes. Seaming, attaching eyelets. Well made and carefully inspected. Weights range from 7 lbs. to 15 lbs.

\$2.00 And Up

Art. No.	Size	8-oz. Duck	10-oz. Duck	12-oz. Duck
188B105	No. 1, 7x14 ft.	\$2.00	\$2.45	\$3.25
188B107	No. 2, 7x15 ft.	2.20	2.70	3.50
188B109	No. 3, 10x16 ft.	2.90	3.75	4.95

Gasoline Engine Covers

Made in two kinds of material, white or waterproof. White is standard No. 10, 13-oz. duck, mildew-proof, strong and durable. Will shed rain but is not rain-proof, and rain proof cover is of standard quality 8-oz. duck with waterproof oil dressing that keeps it pliable, preventing cracking. Eyelet 1 ft. apart on sides and ends, allowing cords or ropes to be used for rigid fastenings when desired.

188B114-For 4 H. P. engine, size 18x14 1/2 in., shipping weight, 14 lbs.-White Duck. ...\$5.25  
Waterproof Duck ...4.95

188B116-For 8 H. P. engine, size 18x19 1/2 in., shipping weight, 22 lbs.-White Duck. ...\$8.20  
Waterproof Duck ...7.70

188B118-For 16 H. P. engine, size 16x27 1/2 in., shipping weight, 38 lbs.-White Duck. ...\$13.95  
Waterproof Duck ...13.50

Climax Onion Crate

Complete with Cover Collapsible-Holds 50 lbs. Made entirely of clear, well seasoned hardwood, with heavy wire pivots on corners, allowing it to collapse into a flat package when the cover and top are removed. Light, easy to handle. Ship. wt., each, 6 1/2 lbs. Size inside: Length, 19 in.; width 10 1/2 in.; depth, 11 in.

188B124-One only, for sample, ...22c  
188B126-In lots of 6 or more, at factory, each ...17c  
188B128-In lots of 24 or more, each ...19c

Climax Vegetable Crates

For Potatoes, Onions, Tomatoes, Apples, Etc. Holds One Bushel Level Full. Made of hardwood. Shipped knocked down, in bundles, thereby securing low freight rates. Can be put together in a very short time. Pieces cut to length and nails are included. Can be piled without injury to contents. Average wt., 6 lbs.

288B138-25 or more, at Chicago, each ...18c  
288B139-25 or more, at factory, each ...17c  
10 or less, shipped from our store; 25 or more, from factory in Southern Michigan.

Climax Folding Delivery and Field Crates

Two Styles, each holds one bushel level full. Folds into small package No. 1 for grocery and house delivery. Easily set together at instant. No. 2, recommended for field use. Easily collapsed or set up. Made of smooth wood slats.

188B146-No. 1 Delivery Crate. Weight, 7 lbs. Price, one only for sample, ...21c  
Price, each, in lots of 6 ...20c  
188B148-No. 2 Heavy Field Crate. Weight, 9 lbs. Price, one only, ...22c  
Price, each, in lots of 6 ...21c  
Price, each, in lots of 48 ...20c

Climax Adjustable Ice Plows

Wood or steel frame, four to eight teeth, simply constructed, well made, double row, plows that mark and cut at the same time. Made to cut cakes in five sizes-16, 19, 22, 25 and 28 in.

Shipped set for 22-inch cakes but can readily be adjusted for other sizes. Cut from 8 to 10 inches deep. Can be used on either side of the plow. Teeth attached to frame by adjustable and removable clamps. Runners, two at each end, made of heavy 1-inch steel, carry the weight of the plow. Seat for operator. Two styles, wood and steel frames. Wood frame plows have center beam, cross gauge bars, handles and seat of wood. Steel frame plows are built entirely of steel with exception of handles and seat. Directions for setting up, operating, gauging and sharpening of teeth.

288B292-4 tooth plow, one horse, for small consumers of ice. Capacity, 20 to 30 tons per hour; cuts 1/2 inch on each side and will cut any depth from 1/2 to 8 inches. Weight, 115 lbs. Price, ...\$13.45

288B294-6 tooth plow, wood frame, of sufficient capacity for creameries, hotels and marketmen, etc. Capacity, 30 to 50 tons per hour; cuts 3/4 inch on each side and will cut to 8 inches deep; weight, 135 lbs. Price, ...\$16.75

288B296-8 tooth wood frame plow, for large quantities of ice for creameries, hotels, marketmen, etc.; capacity, 30 to 50 tons per hour; cuts 1 inch on each side and any depth from 1/2 to 9 inches. Weight, 145 lbs. Price, ...\$19.40

288B302-8 tooth steel plow; two horse; suitable for largest harvesters of ice; capacity, 40 to 70 tons per hour; cuts 1 inch on each side and any depth from 1 to 10 inches. Weight, 180 lbs. Price, ...\$23.60

Shipped from factory in Southern Wisconsin.



Field, Barn  
Dairy  
Orchard

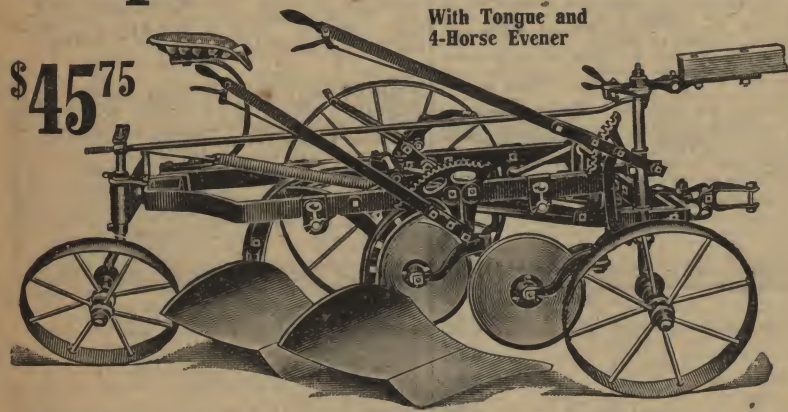
# FARM MACHINERY

— Under the Supervision of Practical, Experienced Men —

Men who have devoted years of practice, study and effort to master every detail; gas engine and engineering experts capable of planning your power, pumping, lighting or irrigating plants; cream separator and dairy experts, with dairy experience from milking to butter making; field men who have spent many days behind the plow; shrewd, skilled, wide-awake buyers, constantly on the alert to give you a little more, a little better value for every dollar in price.

These men are ready and waiting to handle your orders; just as enthusiastic to answer your letters; just as willing to give you the benefit of their experience to help you decide what you need to till your land, to harvest your crops, to do your grinding, feed cutting, pumping, etc., as if your letter were accompanied by an order. We have the ability to do it, and the willingness to aid you in selecting the most suitable, economical and satisfactory implements for your requirements, and to give you prompt and efficient service.

## Improved Climax Sulky and Gang Plows



\$45<sup>75</sup>

With Tongue and  
4-Horse Evener

**FRAMES** are made of heavy, strong steel bars so that the plow will always stay set up. No sagging or bending to cause the plow to run out of shape. The land wheel axle crosses under the frame with a box on either side of the frame and combines to support the axle and divide the strain. This feature keeps the land wheel in its proper running position and adds strength to the plow. The front furrow axle socket casting has slot holes to take up the slack after the plow has been used for some time, preventing it cutting too wide a furrow.

**FOOT LIFT** is the most effective and neatest ever devised. A slight push of the foot releases plow, pushes it into the ground and it reaches its proper depth within 18 in. travel. The lift is directly in front of the driver, where weight can be instantly applied. As soon as the plow gets its depth, it is automatically locked and cannot lift until foot pressure is again applied.

**IN STONY GROUND** the plow can be left loose in the frame, to rise when it strikes stone or root. By a turn of the set screw the locking device can be thrown off its center and the plow will rise out of the ground, saving the point of share.

**LEVELING LEVERS** are within easy and convenient reach of the operator. The levers are to the right of the operator, allowing free clearing space at left side for mounting and getting off the plow. Perfect leveling is assured at all times.

**WHEELS** are set true, so that when at work there is no slipping or friction of any kind. The plow will follow the horses as true as a wagon. This is a very important feature, as in many other plows where the wheels are not running in direct line, it means adding another horse to your plow. The line of draft in the Improved Climax Plow is so true that there is no need of setting one wheel barred against the other to line up the plow.

**FRONT FURROW WHEEL** has a latch, or hand lever, whereby the furrow wheel can be adjusted while the plow is working, without the necessity of loosening any bolts on the pole. This is an excellent feature, especially towards the close of the day, when a horse is tiring, and there is a tendency to crowd or lag. The wheel can be

instantly adjusted to overcome any side draft. This improvement, not found in all other plows, allows the operator to finish up a piece of land better than most other riding plows.

**THE REAR AXLE** is set to positively take the friction from the landside of the plow bottom. The connecting rod is so arranged that when turning, the front furrow wheel and the rear furrow wheel work in harmony with each other, avoiding friction and giving the best results.

**DUST-PROOF HUBS AND SAND BANDS** on all wheels. A spring oil cup on each band enables the wheels to be properly oiled and will not let the dust in.

**ROLLING COUNTERS** are fastened to the beams with corrugated washers and an eye-bolt through the beam. They are set at the best working point, but can readily be adjusted forward or backward, up or down.

**POW BOTTOMS** are extra well braced, and of the most approved shape.

**MOULDBOARD AND SHARES** are constructed from the highest grade of soft center steel, and shinned on the upper side, producing double-wearing qualities where the wear comes. The share and mouldboard are bound together by solid malleable frogs and heavy braces. Shares are reinforced at point by a heavy piece of steel, thoroughly welded and highly tempered. This produces durability where the greatest wear occurs.

**OUR IMPROVED CLIMAX PLOW IS CARRIED ON THE WHEELS WHILE IT IS PLOWING. THE PLOW DOES NOT CARRY THE WHEELS AS IS THE COMMON FAULT WITH MANY OTHER MAKES.**

Three and four-horse eveners, made of No. 1 clear white oak. SULKY regularly furnished with tongue, 3-horse evener, neck yoke, rolling coulter and weed hook.

**GANG PLOW** furnished with tongue, 4-horse evener, neck yoke, two rolling coulters and weed hook. Average weight of gang plows, 500 lbs. Average weight of gang plows, 730 lbs.

Right Hand Only—We Cannot Furnish Left Hand.

### Prices of Improved Climax Sulky Plows (Right Hand Only)

288B500	Sulky, with 12-in. stubble bottom (all soft center steel)	\$29.00
288B502	Sulky, with 14-in. stubble bottom (all soft center steel)	29.90
288B504	Sulky, with 16-in. stubble bottom (all soft center steel)	31.00
288B506	Sulky, with 12-in. turf and stubble bottom (all soft center steel)	29.50
288B508	Sulky, with 14-in. turf and stubble bottom (all soft center steel)	30.50
288B510	Sulky, with 16-in. turf and stubble bottom (all soft center steel)	31.50
288B512	Sulky, with 14-in. open hearth steel breaker bottom and extra share	30.75
288B514	Sulky, with 16-in. open hearth steel breaker bottom and extra share	31.70
288B516	12-in. soft center steel shares. Each	\$1.80
288B518	14-in. soft center steel shares. Each	2.00
288B520	16-in. soft center steel shares. Each	2.20

Weights of shares range from 10 to 16 lbs. Cast chilled shares fit perfectly in place of steel shares, but are recommended only for sandy, gravelly or stony soils. Shipped from warehouse near Chicago.

**Light Draft, High Lift, Foot Lift, Spring Lift, Beam Hitch**  
Will Turn Completely Around in Its Own Length, While Plow is in Ground, Insuring Perfectly Square Corner. Soft Center Steel Mouldboards, Landsides and Shares.

Our Improved Climax Sulky and Gang Plows represent many years of tests, experiments and trials, including the most trying operations a riding plow has ever been subjected to. They are the improved edition of our well known Blue Jay Plows, which have given satisfaction to so many thousands of our customers. Their superior plowing qualities under all conditions, their durability and easy operation and saving of wear on harness and horses, are hard to beat.

**HOWEVER, WE HAVE ECLIPSED THE BLUE JAY IN OUR IMPROVED CLIMAX, BY STUDYING SMALL FEATURES, CONSIDERED BY MANY PLOW MEN AS NOT WORTH MUCH ATTENTION.** The foot lift is made so easy that a boy can operate it; the lift is directly in front of the driver; the wheels set so true that at work there is no friction, thereby reducing the draft on the horses; reconstruction of the frame to avoid any chance of sagging or bending without adding weight; the latch or lever arrangement, whereby the pole can be changed or set without stopping the team; spring oil cups on sand bands, to keep out dust, and many other important though comparatively small items that place our Improved Climax where we can positively say, as we honestly believe: "You cannot buy better."

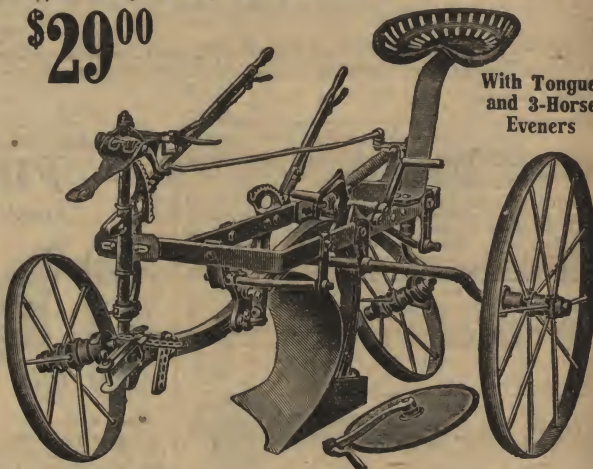
### This is What Counts

\$40.00 for sulky, and \$60.00 for gang, are common retail prices for standard, well-known makes of riding plows. Unless you are close to their manufacturing plant, freight is added to these prices.

You pay us \$29.90 for our 14-in. sulky, \$47.00 for our 14-in. gang, and we give you \$40.00 and \$60.00 worth, as you get in the high-priced plows. We solicit comparison. We invite side-by-side tests and trials. Purchase one of our plows, take it to your neighbor who is using one of the well-known, high-priced makes. Put ours in the same field with the same team. Compare the draft on the team; the clean-out furrow; the action of the plow in putting in and taking out of ground; in turning corners—look at it from every viewpoint.

We know the racking, trying tests our plows have been subjected to. We have given them side-by-side trials with some of the highest-grade plows on the market. In shipping you an Improved Climax we are writing the best possible insurance of making you a permanent customer by giving you, as we believe, more value for every dollar of price than your money will buy in a riding plow anywhere else.

\$29<sup>00</sup>



With Tongue and  
3-Horse  
Eveners

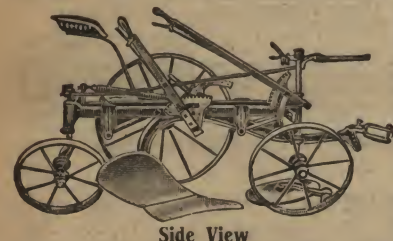
### Prices of Improved Climax Gang Plows (Right Hand Only)

288B522	Gang, with two 12-in. stubble bottoms (all soft center steel)	\$45.75
288B524	Gang, with two 14-in. stubble bottoms (all soft center steel)	47.00
288B526	Gang, with two 12-in. turf and stubble bottoms (all soft center steel)	46.25
288B528	Gang, with two 14-in. turf and stubble bottoms (all soft center steel)	47.25
288B530	Gang, with 12-in. open hearth steel breaker bottoms and extra shares	47.10
288B532	Gang, with 14-in. open hearth steel breaker bottoms and extra shares	48.00

### Prices of Climax Gang Plows (Right Hand Only)

288B534	12-in. cast chilled shares. Each	.55
288B536	14-in. cast chilled shares. Each	.60
288B538	16-in. cast chilled shares. Each	.70

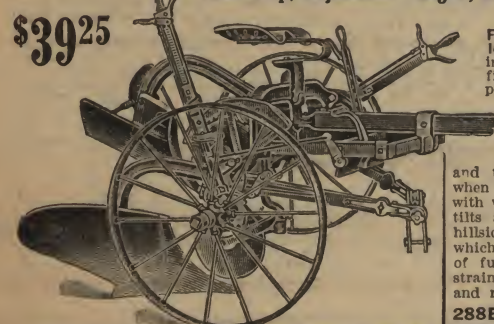
Shipped from warehouse near Chicago.



Side View

## Climax Two-Way Sulky Plow

For Flat Land or Hillside, Horse Lift, Tilting Seat, Foot Trip, Adjustable Tongue, Steel Frame, Malleable Connections



\$39<sup>25</sup>

Plowing one way frequently saves lots of time and short sides, and horses always turn on unplowed ground.

A combination of two separate and independent steel beam plows, each one separately controlled by levers and lifting device. When in use one plow turns the furrow, while the other is carried high to avoid obstructions. At the end of the furrow the plowing bottom is raised, the turn made, and the other one lowered to plowing position.

It is economical because only one bottom is in use at a time and it will give as long service as two ordinary plows, with its many other conveniences.

For Hillside Plowing, To Throw The Furrow One Way, For Back Furrowing, This Plow Possesses Many Excellent Features and Will Do Satisfactory Work. It is indispensable on farms having hills or irregularly shaped fields or other conditions which make it desirable to plow the ground one way.

Horses do the lifting. Pressing the foot trip or handle latch of lever, the plunger engages the wheel ratchet, which revolves with the wheel until the correct position is reached, when it releases automatically. Draft is direct from the point of beam and the hitch automatically adjusts to the right position when either bottom is in the ground. High metal wheels with wide tires and removable dust-proof boxes. Seat readily tilts and is easily leveled at all times whether plowing on hillsides or on level ground. Tongue has lever adjustment which enables operator to regulate landing of plow, width of furrow, even furrow around curves and to relieve side strain on team. Regularly furnished with three-horse eveners, and rolling coulters. Average weight, 600 lbs.

288B548—Climax Two-Way Sulky, complete with 12-in. general purpose bottoms, having soft center steel mouldboards, chilled landsides and shares, rolling coulters and three-horse eveners. Price

288B550—Same as above except with 14-in. bottoms. Price

288B552—Climax Two-Way Sulky Plow, complete with 12-in. all soft center steel, general purpose bottoms, including mouldboards, landsides and shares. Price

288B554—Same as above except with 14-in. all soft center bottoms. Price

Shipped from factory in Indiana.

## Western Frameless Sulky Plow

One of the best Frameless Sulky Plows made. Will do as good work, and is as easily operated, as many of the Frame Sulky Plows on the market, except that it has no Foot Lift.

One lever operates both axles when raising plow out of ground (on most other sulky it requires two levers to do the raising), the main spring being so arranged that a boy of 12 can raise the plow with ease. The front furrow wheel swivels when turning, same as on frame plows, and is superior to the rigid wheels on other makes of frameless sulky. The front furrow shaft always stands straight up, no matter what depth is being plowed, or when on the road. The wheels carry the load instead of the plow carrying the wheels. The adjustment and levers allow plowing from 2 to 8 in. deep, as desired. Furrow can be opened 4 to 5 in. deep. Bottoms have mouldboards, shares and landsides made of soft center steel, the same quality as in our Improved Climax. Made in right hand only. Furnished complete with tongue, rolling coulter, 3-horse eveners, neck yoke and weed hook. Average weight, 390 lbs.

### PRICES OF COMPLETE PLOWS

288B560	With 12-in. stubble bottom	\$23.00
288B562	With 14-in. stubble bottom	24.00
288B564	With 16-in. stubble bottom	25.00
288B566	With 12-in. turf and stubble bottom	23.40
288B568	With 14-in. turf and stubble bottom	24.40
288B570	With 16-in. turf and stubble bottom	25.50

Shipped from warehouse near Chicago.

### EXTRA SHARES

Weights from 12 to 16 lbs.

288B572	12-in. soft center	\$1.80
288B574	14-in. soft center	2.00
288B576	16-in. soft center	2.20
288B578	12-in. cast chilled	.55
288B580	14-in. cast chilled	.60
288B582	16-in. cast chilled	.70



\$23<sup>00</sup>  
Complete  
with Tongue



# FARM SUPPLIES

Stock  
Poultry  
Dairy  
Apiary

## Factory Shipments

Some of the large articles of farm machinery are shipped to you direct from the factory.

Goods shipped from a factory are examined just as carefully by our inspectors as the smaller articles which are shipped from our store. You will always receive brand new goods, fresh from the finishing room, and wherever crating is necessary the work is carefully done to insure safe delivery.

It is very frequently the case that the freight from the factory to your station is less than it would be from our store, and this saving is yours.

We can ship some articles from two or more factories in different states, thus affording customers in widely separated states, a great saving in freight charges. For example, refer to the shipping points specified under the description of saw frames, feed cutters, corn shellers, feed mills, cider presses, etc.

## Warehouse Shipments

To give Real Service and quick delivery to our customers, many articles are stocked in warehouses ready for immediate shipment. Some articles, such as Cream Separators and Gasoline Engines, can be shipped from various warehouses in different states. For a list of these warehouses, refer to Cream Separator or Engine pages.

## Renewals or Repairs

We can promptly furnish Renewals or Repairs, at low prices, for any machines purchased from us. These orders will receive special attention, as we fully realize the importance of furnishing repairs and doing it quickly.

When ordering repairs, always give the name of the article, number and letter on the particular part desired, and if possible the year in which it was purchased; or, if number cannot be determined, describe the part wanted, sending a diagram if convenient, and give several of the casting numbers appearing on various other parts. Sometimes the number or letter on an original part cannot be seen plainly, but by wetting and scraping the surfaces of the part, the number or letter will show up clearly.

To avoid delay be careful to follow out fully the instructions as outlined; otherwise, it may be necessary for us to hold your order to write you for further particulars.

If you are in urgent need of any part, telegraph us, giving the information as requested, and shipment will be made immediately.

The time-worn argument about "Difficulty in Getting Repairs" is used just as frequently today as in the past, but don't permit anyone to mislead you on this point. Repairs can be promptly furnished and at low prices.

WE CAN PROMPTLY SUPPLY REPAIRS FOR THE DETROIT-AMERICAN HARROWS, CULTIVATORS, AND MANURE SPREADERS FORMERLY MADE BY THE AMERICAN HARROW CO.

## Foreign Orders

We guarantee safe delivery to any port on the globe, as we have a large Foreign Department that thoroughly understands all requirements as to shipping, packing and invoicing.

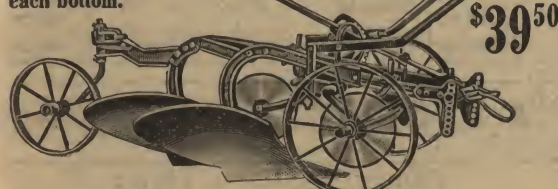
Freight aboard ship is generally figured by measurement instead of weight, and the saving effected in freight due to our expert packing usually amounts to more than our charge for export boxing. We are obliged to charge the freight from factory to Chicago when goods are quoted at factory, and for the time and material used in making the heavy cases necessary for export shipment. When items quoted at factory are included in order, allowance must be made for the delay necessary to procure from factory. We explain these matters fully in the preliminary pages of our Foreign Catalogue.

Our Foreign Department will be glad to give an estimate of the charges on any of our goods to any port in the world, but it is not necessary to delay orders until you have such an estimate.

Freight to most ports must be prepaid, and if you send us cash for the goods, our Foreign Department will carefully do the necessary boxing, advance all charges and collect from you by sight draft against the bill of lading.

## Climax Tractor Gang Plows

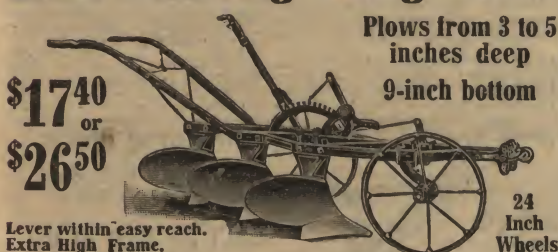
With front extended levers when used with tractors. Rear levers and riding attachments furnished to use with horse power. Two bottom gang shows front levers and connection arranged to use with tractors. Rolling coulters furnished, one to each bottom.



Our Climax tractor gangs, while very sturdy and strong, are intended to be used with light tractors only, that usually are capable of pulling a two bottom gang or a gang with three small bottoms. Do not order a Climax to use with the big tractors, as they are not heavy enough to stand the tremendous strain put upon them by the powerful machines that handle 4, 5 and 6 bottom gangs.

14-inch soft center steel bottoms. Will plow 6 to 8 inches deep. Bottoms can be raised 5 inches from ground. Each wheel has lever control. Steel Wheels, Axles, Frames and Levers.

## Climax Walking Gang Plow



Plows from 3 to 5 inches deep  
9-inch bottom  
24 Inch Wheels  
Lever within easy reach.  
Extra High Frame.  
THE FRAME AND WHEELS ARE ALL STEEL. Turns sand and loose soil and works perfectly in any ground where a plow of the kind can be used. Mouldboards are shaped to make the draft exceptionally light. Excellent materials are used throughout. Plows sod to 4 in. and corn, wheat, or oat stubble from 3 to 5 in. It does the work of three single plows. Equipped with 9-in. bottoms cutting 27 in., made with chilled and soft center steel bottoms. Chilled shares can be used with steel mouldboards if desired, but are only intended for use in sandy, gravelly or stony soil. Weight, 300 lbs.  
288B610—With chilled mouldboards and shares.....\$17.40  
288B612—With soft center steel mouldboards, shares and landsides.....26.50  
288B614—Extra soft center steel shares. Wt., 3 1/2 lbs. Each.....1.35  
288B616—Extra chilled shares. Wt., 4 lbs. Each......25  
Shipped from factory in Southern Michigan.

Either the two or three bottom plows, when furnished for use with light tractors, have friction break attached to the end of clevis, and between the clevis and the ring that connects the tractor. The friction break consists of a wooden plug that is intended to break if the plow bottom strikes any large stones or heavy roots. The breaking of the plug saves the plow. No special attachment other than the ring with friction break on it is furnished, as tractor usually has draw bar with a series of holes allowing sufficient adjustment. The levers extend forward so that they can be readily handled by the operator of the engine, making it a one man outfit.

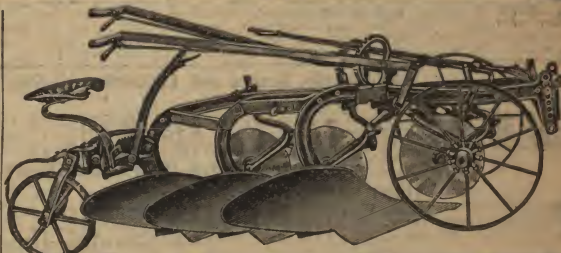
When furnished for horses the regular plow clevis only is supplied in place of the ring and friction break, also the regular short levers with riding attachment. Three horse hardwood evener is regularly furnished with two bottom plow, and a four horse hardwood evener with a three bottom plow. Average shipping weight of two bottom plow, 590 lbs.; three bottom, 725 lbs.

288B600—Two bottom plow, for use with tractor, complete with rolling coulters, friction break, and ring connections, 14 inch stubble bottoms. Price.....\$39.50  
288B602—Two bottom tractor, same as above except with general purpose bottoms. Price.....\$39.75  
288B604—Three bottom plow for use with tractor with 14 inch stubble bottoms, otherwise complete, as above. Price.....\$56.00  
288B605—Three bottom plow for use with tractor, complete with 14 inch general purpose bottoms. Price.....\$56.50  
288B606—Two bottom plow, complete for use with horse power, with rolling coulters, three horse evener and 14 inch stubble bottom. Price.....\$34.50  
288B607—Two bottom plow, same as above except with general purpose bottoms. Price.....\$34.75  
288B608—Three bottom plow for horse power, with rolling coulters and four horse evener, 14 inch stubble bottom. Price.....\$49.50  
288B609—Three bottom plow, same as above except with general purpose bottoms. Price.....\$39.75  
Shipped from factory in Indiana.

## Climax Subsoil Plow



Heavy Wood Beam.  
Forged Steel Shoe and  
Cutter. Draft Rod  
and Clevis.  
In almost every section subsoiling is necessary. We believe the Climax will do the work better, and with less draft than any other plow built. It follows immediately after the mouldboard plow, working in the same furrow. It does not turn a furrow, but merely breaks, loosens, and lifts the subsoil beneath the furrow slice to a depth of from 10 to 14 inches, leaving the ground in the best possible condition to retain moisture and the crop to withstand drought.  
Many soils have a hard, closely packed subsoil which tends to become harder and denser by continuous plowing to the same depth. A sort of artificial hardpan is formed which plant roots penetrate with difficulty and through which rain passes slowly. A subsoiler breaks through this hardpan and loosens the soil below it, so that air and water may enter. The depth of the seed bed is increased to the great benefit of the crops to be grown. The water holding capacity of some soils is practically doubled and the area in which plant roots may feed is greatly enlarged.  
The Climax is substantially built, and will prove long-wearing. Wood beam, of well seasoned oak. Shoe and Cutter of forged steel. The handles are made of oak, double braced, and attached to the beam by malleable iron brackets. Requires 3 or 4 horses. A good subsoil plow that can be used to advantage on almost every farm.  
Furnished complete with lead wheel, draft rod, clevis, and wrench.  
Shipping weight, 80 pounds.  
288B622—Climax Subsoil Plow. Price.....\$8.25  
Shipped from factory in Indiana.

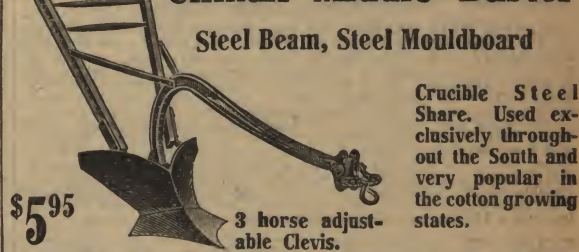


Three bottom gangs with levers extended in rear, and riding attachment to use with horses

Our Climax tractor gangs, when used in connection with the light tractors, will give exceptionally good service, and while they are comparatively light, adapting them to light tractors, they are exceedingly well built, the weight being properly distributed to give the greatest strength where needed. Made in one size only. Each bottom turns a 14 inch furrow, and each bottom complete with rolling coulters. High quality Soft Center Steel Bottoms throughout. These plows will scour in any soil where any of the well known plows with regular stubble or general purpose bottoms will scour.

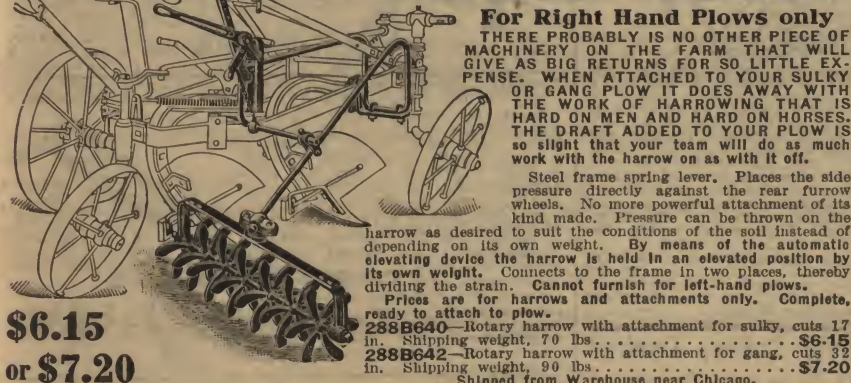
Illustration of the two bottom plow shows construction for use with tractor. The two bottom plow can also be equipped with rear lever and riding attachment for horses only, but cannot be furnished for both horses and tractor. The illustration of three bottom plow shows equipment for use with horses, but this plow can also be furnished with the front extended levers when ordered for tractor, at the same price.

## Climax Middle Buster



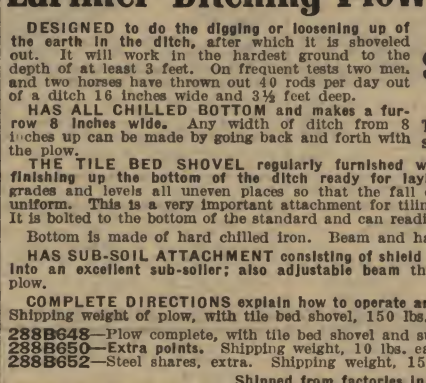
Steel Beam, Steel Mouldboard  
Crucible Steel Share. Used exclusively throughout the South and very popular in the cotton growing states.  
3 horse adjustable Clevis.  
OUR MIDDLE BUSTER is an especial favorite in the cotton and tobacco sections of the Southern States, and for use in mixed, sandy and black lands. They are built with extra heavy steel beam, with a high throat, soft center steel mouldboard and crucible steel share. Furnished regularly with rudder to guide and steady the plow. Handles of well seasoned oak.  
288B628—Middle Buster, 10-in. Shipping wt., 77 lbs. Price.....\$5.95  
288B628—Middle Buster, 12-in. Shipping wt., 80 lbs. Price.....6.40  
288B630—Middle Buster, 14-in. Shipping wt., 87 lbs. Price.....6.85  
288B631—Extra Crucible Steel Share, 10-in. Shipping wt., 4 lbs. Price......80  
288B632—Extra Crucible Steel Share, 12-in. Shipping wt., 7 lbs. Price......95  
288B634—Extra Crucible Steel Share, 14-in. Shipping wt., 8 lbs. Price.....1.10  
Shipped from factory in Ohio.

## Acresworth Harrow Attachments



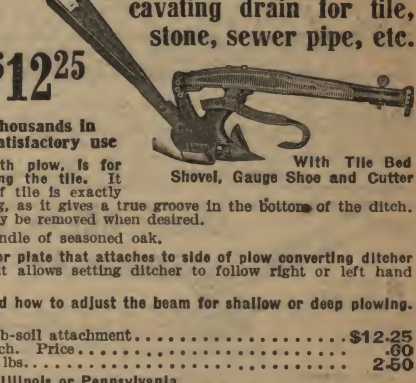
For Right Hand Plows only  
THERE PROBABLY IS NO OTHER PIECE OF MACHINERY ON THE FARM THAT WILL GIVE AS BIG RETURNS FOR SO LITTLE EXPENSE. WHEN ATTACHED TO YOUR SULKY OR GANG PLOW IT DOES AWAY WITH THE WORK OF HARROWING THAT IS HARD ON MEN AND HARD ON HORSES. THE DRAFT ADDED TO YOUR PLOW IS SO slight that your team will do as much work with the harrow on as with it off.  
Steel frame spring lever. Places the side pressure directly against the rear furrow wheels. No more power attachment of its kind made. Pressure can be thrown on the harrow as desired to suit the conditions of the soil instead of depending on its own weight. By means of the automatic elevating device the harrow is held in an elevated position by its own weight. Connects to the frame in two places, thereby dividing the strain. Cannot furnish for left-hand plows.  
Prices are for harrows and attachments only. Complete, ready to attach to plow.  
288B640—Rotary harrow with attachment for sulky, cuts 17 in. Shipping weight, 70 lbs.....\$6.15  
288B642—Rotary harrow with attachment for gang, cuts 32 in. Shipping weight, 90 lbs.....\$7.20  
Shipped from Warehouse near Chicago.  
Prairie King 3-Horse Plow Set  
All wood parts of thoroughly seasoned straight grained oak.  
Large and strong. Suitable for heaviest plowing.  
\$1.70  
Exceptionally strong and serviceable. For plowing, harrowing, grading or for use on any implement without tongue. All wood parts are made of thoroughly seasoned oak, full size. Length of main evener, 44 in.; short evener, 30 in.; single-tree, 23 in. Steel hooks and clevises. Shipping weight, 30 lbs.  
188B658—3 Horse Evener. Price.....\$1.70

## Larimer Ditching Plow



DESIGNED to do the digging or loosening up of the earth in the ditch, after which it is shoveled out. It will work in the hardest ground to the depth of at least 3 feet. On frequent tests two men and two horses have thrown out 40 rods per day out of a ditch 16 inches wide and 3 1/2 feet deep.  
HAS A CHILLED BOTTOM and makes a furrow 8 inches wide. Any width of ditch from 8 inches up can be made by going back and forth with the plow.  
THE TILE BED SHOVEL regularly furnished with plow, is for finishing up the bottom of the ditch ready for laying the tile. It grades and levels all uneven places so that the fall of tile is exactly uniform. This is a very important attachment for tiling, as it gives a true groove in the bottom of the ditch. It is bolted to the bottom of the standard and can readily be removed when desired.  
Bottom is made of hard chilled iron. Beam and handle of seasoned oak.  
HAS SUB-SOIL ATTACHMENT consisting of shield or plate that attaches to side of plow converting ditcher into an excellent sub-soiler; also adjustable beam that allows setting ditcher to follow right or left hand plow.  
COMPLETE DIRECTIONS explain how to operate and how to adjust the beam for shallow or deep plowing. Shipping weight of plow, with tile bed shovel, 150 lbs.  
288B648—Plow complete, with tile bed shovel and sub-soil attachment.....\$12.25  
288B648—Extra points. Shipping weight, 10 lbs. each. Price......60  
288B652—Steel shares, extra. Shipping weight, 15 lbs.....2.50  
Shipped from factories in Illinois or Pennsylvania.

## Especially made for excavating drain for tile, stone, sewer pipe, etc.



Thousands in satisfactory use  
With Tile Bed Shovel, Gauge Shoe and Cutter  
288B664—Four-horse Evener. Shpg. wt., 65 lbs. Price.....\$4.60  
288B666—Ford's Five-horse Evener. Shpg. wt., 95 lbs. Price.....5.95  
288B668—Frame Hitch Attachment. For either Four or Five Horse Evener. Can be attached to any frame hitch plows. Made of malleable iron. Shpg. wt., 9 lbs. Price......95c  
288B670—Blinder Attachment. To use Four Horse Evener on binders. Shpg. wt., 12 lbs. Price......850  
Shipped from Warehouse near Chicago.



# Climax WALKING PLOWS

Double Shin Mouldboards, 5/16-Inch Shares

Mouldboards are Double Shin. Landsides are reinforced at heel. Patent welded land-bar and frog, double beaded steel beam with high bend to allow trash to clear easily. Handles are steam bent and strongly braced with wood round, iron rod, iron beam braces, and an iron set brace below; adjustable 3-horse clevises. They are of light draft, excellent pulverizers and particularly recommended to farmers who rotate their crops.

OUR Climax Plows are manufactured by two large and reliable factories, and the same plows under other names are sold by dealers throughout the country at very much higher prices.

We can furnish renewals or repairs promptly, and shall always have them ready for delivery.

We invite comparison with others of the well known makes. The 14-in. size is sold at retail at \$12 to \$14. We offer the same grade at \$9.95. Compare the general appearance, the workmanship and construction.

Extra shares, or other parts for Climax plows, furnished promptly at all times. See Directions on another page for ordering renewals or repairs.

\$845 to \$11 05

Easily  
Handled  
Strongly  
Braced  
Long Wearing

WHEN you buy a Climax you have a plow with a national reputation, a plow that has been in use among the farmers of this country and in foreign lands for a great many years; A PLOW THAT CAN BE DEPENDENT UPON to scow easily, to turn a perfect furrow. It is well balanced in every way and can be easily handled. From the tips of the points to the tops of the handles the Climax plows are well built of first class materials, strongly braced.

## Climax Turf and Stubble or General Purpose Plows

Plows of this kind are known by the long, easy turn of the mouldboard which adapts them for use in tane sod, stubble and fallow plowing. There are more of these in use than any other two styles on the market. Turf, trash and weeds are turned and covered. The shape of the mouldboard is such that

the top soil is turned completely under. These plows are especially used for plowing in clover, timothy, or alfalfa, heavy stubble; also old pasture land, clay soil or for top plowing. In fact, they are for general purpose work. Average shipping weights—12 in., 100 lbs.; 14 in., 110 lbs.; 16 in., 120 lbs.

## Climax Stubble or Old Land Plows

Our Stubble or Old Land Plows are the same in construction as our Turf and Stubble or General Purpose Plows shown in picture, the difference being in the length and shape of the mouldboard, the stubble plows having a shorter board with shorter curve, and when used on old land turns the furrow

in a way that assists pulverizing. Mouldboards, Shares and Landsides are made of high quality, soft center steel and will occur in any soil where any other plow will. Average weights—12 in., 100 lbs.; 14 in., 110 lbs.; 16 in., 120 lbs.

### Mouldboards, Shares and Landsides, All Soft Center Steel

RIGHT HAND			LEFT HAND		
188B700	12-in. Turf and Stubble.	Price \$8.45	288B712	12-in. Turf and Stubble.	Price \$8.50
188B702	14-in. Turf and Stubble.	Price 9.70	288B714	14-in. Turf and Stubble.	Price \$9.75
188B704	16-in. Turf and Stubble.	Price 11.00	288B716	16-in. Turf and Stubble.	Price \$11.05

### Extra Shares (Soft Center Steel)

RIGHT HAND			LEFT HAND		
88B706	12-in. Share, Wt., 11 1/2 lbs.	Price \$1.85	288B718	12-in. Share, Wt., 11 1/2 lbs.	\$1.87
88B708	14-in. Share, Wt., 12 3/4 lbs.	Price \$2.05	288B720	14-in. Share, Wt., 12 3/4 lbs.	\$2.08
88B710	16-in. Share, Wt., 14 1/2 lbs.	Price \$2.20	288B722	16-in. Share, Wt., 14 1/2 lbs.	\$2.22

Right Hand Plows or Shares shipped either from our store or from factories near Chicago.

### Mouldboards, Shares and Landsides, All Soft Center Steel

188B728	12-in. Stubble Plow, Right Hand.	\$7.95	288B740	12-in. Stubble Plow, Left Hand.	\$8.00
188B730	14-in. Stubble Plow, Right Hand.	9.20	288B742	14-in. Stubble Plow, Left Hand.	9.35
188B732	16-in. Stubble Plow, Right Hand.	10.50	288B744	16-in. Stubble Plow, Left Hand.	10.80

### Extra Shares (Soft Center Steel)

RIGHT HAND			LEFT HAND		
88B734	12-in. Stubble Share. Wt., 11 1/2 lbs.	\$1.80	288B746	12-in. Stubble Share. Wt., 11 1/2 lbs.	\$1.83
88B736	14-in. Stubble Share. Wt., 12 3/4 lbs.	\$2.00	288B748	14-in. Stubble Share. Wt., 12 3/4 lbs.	\$2.05
88B738	16-in. Stubble Share. Wt., 14 1/2 lbs.	\$2.20	288B750	16-in. Stubble Share. Wt., 14 1/2 lbs.	\$2.25

Right Hand Plows or Shares shipped either from our store or from factory near Chicago.

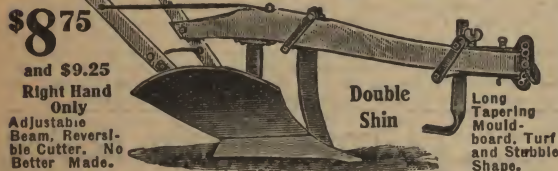
### Extras for Climax Plows

288B755	Steel Fin Cutter, Right or Left Hand. State which. Weight, 8 lbs.	\$0.50
288B757	Quincy Reversible Cutter with clamp. Right or Left Hand. State which. Weight, 8 lbs.	1.30

Cutters shipped with plows either from our store or from factories near Chicago.

## Climax Hazel or Brush Plows

Steel Braced Adjustable Beam



STRONG, WELL BRACED, and made for hard work. Double Shin. FOR USE IN BRUSH LAND OR PLOWING AMONG STUMPS OR FOR LIGHT ROAD PLOWING. Made for extra heavy work that cannot be handled with an ordinary plow. Can also be used in old ground or tane sod. Beam is of well seasoned hardwood, made extra heavy and strong; plow has a braced steel Standard; reversible steel cutter; strap on bottom of beam extending from the standard forward to the clevis pin; extra hardened steel shares made for extra heavy work; steel mouldboard; solid steel landside. Has welded land-bar and frog; handles are strong and heavy and well braced so as to stand heavy work. Has a double shin which lasts twice as long as the single. Price includes the plow with reversible cutter, gauge shoe and adjustable clevis. Complete. Equal to plows retailing at considerably higher prices. Ship. wts. of extra shares, 12 in. share, 10 lbs.; 14 in. share, 13 lbs. Right Hand only. Not made in Left Hand.

Art. No.	Price	Size	Ship. wt.	Extra Shares
288B815	\$8.75	12 in.	110 lbs.	12 in. \$1.65
288B817	9.25	14 in.	120 lbs.	14 in. \$1.85

Shipped from Warehouse near Chicago.

## Climax Vineyard Plows

Will turn a furrow from 8 to 12 inches wide by 3 to 8 inches deep.

AN EXCELLENT ONE-HORSE PLOW FOR USE IN NURSERIES, ORCHARDS, OR VINE YARDS, ALSO USEFUL AS A LIGHT GENERAL PURPOSE PLOW. \$5.95 and \$7.65. The beam is adjustable.

so the horse can walk in the furrow or on the land; the handles can be shifted to right or left which enables the plowman to walk away from trees, vines, shrubs, etc. The standard is shaped so that it cannot clog, all litter being carried to the bottom of the furrow. The shape of the mouldboard makes the plow exceedingly light draft. Landside and point are chilled cast iron. The mouldboard is either chilled with ribbed back or soft center steel. Made in right hand only. Extra share and wrench with each plow. Coulters and wheel are extra. Shipping weight, 100 lbs.

288B842—Plow with chilled mouldboard. \$5.95

288B844—Plow with soft center steel mouldboard. 7.65

288B846—Knife Coulters, extra; shipping weight, 7 lbs. 1.25

288B848—Lead Wheel, extra; shipping weight, 10 lbs. .85

288B850—Extra Cast Points; shipping weight, 5 lbs. .30

Shipped from factory in Michigan.

## Climax Hillside Plows



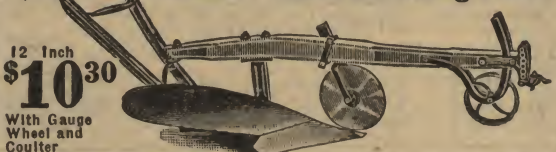
Made especially for hillside work, but will do good work in level land where it is desired to throw the ground one way. Well adapted for garden work. From a well known Plow Factory. This is the simplest and easiest swinging hillside plow that we know of. Mouldboard, share and landside are of the very best chilled iron; beam is of special length, selected hardwood; handles are strong and well braced. A foot lever is used to unlock the plow; a slight pressure of the foot, with movement of the team, the mouldboard and share roll under the standard and it is clamped in position.

EXTRA SHARE WITH EACH PLOW

Price	Size	Shipping Weight	Furrow Capacity	Extra Shares	Wt. of Shares
288B856—\$4.25	A.	75 lbs.	5 x 9 in.	26c	4 1/2 lbs.
288B858—5.50	B.	85 lbs.	5 1/2 x 10 in.	30c	4 1/2 lbs.
288B860—6.70	C.	115 lbs.	6 x 12 1/2 in.	40c	7 lbs.
288B862—7.85	D.	140 lbs.	7 x 13 in.	44c	11 1/2 lbs.

Gauge wheel and reversible jointer for plows B, C or D only, at an extra charge as follows:  
288B864—Gauge Wheel. Shipping wt., 13 lbs. \$0.60  
288B866—Reversible jointer. Shipping wt., 22 lbs. 1.50  
Shipped from warehouse near Chicago.

## Climax Prairie Breaking Plows



MADE TO SCOUR, BIG BEAM—WELL BRACED. SOFT CENTER STEEL MOULDBOARD. EXTRA HARDENED CRUCIBLE STEEL SHARES AND LANDSIDE. EXTRA SHARE WITH EACH PLOW. Our Prairie Breaking Plow has a long, easy turn mouldboard and a slanting share which turns a flat, smooth furrow with very light draft. It lays up one furrow against the other without breaking the sod, which greatly assists in destroying weeds, wild grass, etc. Has a wood beam made of well seasoned hardwood and extra heavy; handles are strong and well braced; solid steel share; mouldboard of excellent soft-center steel; steel standard and landside; patented wrought frog. Clevis adjustable depth and more or less land. One of the strongest and best prairie breakers on the market. You would generally pay not less than \$14.00 for 12-in. size at retail. Prices include adjustable clevis, an extra share, gauge wheel and coulters. Ship. wts., of extra 12, 14 or 16 in. shares; 9, 10 and 11 lbs. respectively. Made in right hand only.

Art. No.	Size Plow	Price	Ship. Wts.	Extra Shares
188B819	12 in.	\$10.30	122 lbs.	12 in. \$1.50
188B821	14 in.	11.80	130 lbs.	14 in. 1.70
188B823	16 in.	14.25	130 lbs.	16 in. 1.90

## Climax Riding Attachment

For Either Wood or Steel Beam Walking Plows  
For Either Right or Left Hand Plows

When Plow is properly set in ground, will go the entire length of Furrow without touching handles



Attaches to wood beams by boring holes in beam to suit the lower clamp bolts only. With this attachment on your plow you can open a furrow 6 inches or can readily adjust to plow up to 9 in. deep. By operation of the levers, plow can be set to run steady, whether with or without seat, and go the entire length of the furrow without touching the handles to guide it. 30 in. steel wheels, of the same diameter, and the furrow axle is drilled so that furrow wheel can be set in or out to suit 12, 14, 16 or 18 in. plows. The main lever operates both axes when raising plow out of ground. Other lever levels and sets the plow. It is not necessary to stop the team to raise the plow or to start it again. The lever spring attached to lever makes operation so easy that a boy of 12 years can operate it. Seat is separate from the attachment and mounted on its own fastenings. Prices do not include plow but are for the attachment only.  
288B852—Attachment, complete, including spring seat. Shipping weight, 120 lbs. Price \$8.65  
288B854—Attachment without seat or seat clamps. Shipping weight, 100 lbs. Price \$7.45  
Shipped from Warehouse near Chicago.

## Acme Coulters

Nearly every dealer sells this style but not at these prices

Size	Wt.	Each
13 in.	16 lbs.	\$1.70
14 in.	17 lbs.	1.95
15 in.	21 lbs.	2.20

## New Sattley Coulters

For wood or steel beam (right or left hand) plows. Cone bearing screw hubs. High tempered, polished steel blades. Can be easily adjusted to run deep or shallow or to the right or left. Wt., 12 in., 17 lbs.; 14 in., 19 lbs.

Size	Wt.	Each
12 in.	12 lbs.	\$1.60
14 in.	14 lbs.	1.80
16 in.	16 lbs.	2.00

## Climax One-Horse Plows

Wood or Steel Beam. Right Hand Only. Extra Share with Each Plow. Solid Steel Bottoms. Light Draft, especially adapted for cotton and corn lands, but suitable for all stubble and light sod plowing with one horse. Very successful for gardens, nurseries or orchards.

Art. No.	Size	Price	Ship. Wts.	Extra Shares
188B826	7 in.	\$2.20	35 lbs.	20c
188B828	8 in.	2.55	41 lbs.	27c
188B830	9 in.	2.80	43 lbs.	30c
188B832	10 in.	4.15	65 lbs.	40c

## Climax One-Horse Plows

With Steel Beam

Art. No.	Size	Price	Ship. Wts.	Extra Shares
188B834	7 in.	\$3.10	60 lbs.	20c
188B836	8 in.	3.55	65 lbs.	27c
188B838	9 in.	3.70	70 lbs.	30c
188B840	10 in.	4.75	85 lbs.	40c

## Single Shovel Plows

Steel Beam with 12x14 Steel Blade

Art. No.	Size	Price	Ship. Wts.	Extra Shares
188B886	Double Shovel Plow, Shipping weight, 35 lbs.	\$1.70		
188B888	Extra, 6x11 in. shovel, Shipping weight, 3 1/2 lbs. Each.	24c		
188B890	Triple Shovel Plow. Made similar to above, except with three beams and shovels, 5x7 1/2 in. Shipping weight, 45 lbs.	\$2.40		
188B891	Extra, 5x7 1/2 in. Shovel, Ship. wt., 2 1/2 lbs.	20c		

## Double and Triple Shovel Plows and Cultivators

Blades are crucible steel, have two bolts each and are 6x11 in., with oval shaped points. Adjustable clevis. Handles strong and well braced. Nice curve to the beam. A splendid tool at a very low price.  
188B886—Double Shovel Plow, Shipping weight, 35 lbs. Price \$1.70  
188B888—Extra, 6x11 in. shovel, Shipping weight, 3 1/2 lbs. Each. 24c  
188B890—Triple Shovel Plow. Made similar to above, except with three beams and shovels, 5x7 1/2 in. Shipping weight, 45 lbs. Price \$2.40  
188B891—Extra, 5x7 1/2 in. Shovel, Ship. wt., 2 1/2 lbs. 20c

## Wing Shovel Plow

BOLTED AND WELL BRACED. SEASONED HARDWOOD HANDLES AND BEAM

Excellent for hilling potatoes, light ditching and doing other work of that nature. It is practically a single shovel plow with adjustable wings, which can be let out to any desired angle. It is sometimes convenient to work it with but one wing, which can readily be done, or the two wings can be worked at one time at different angles. For covering they are almost indispensable. Built very strong and substantial, with good, strong material throughout. Generally sold at retail for about \$2.50 to \$3.00.  
188B892—Wing Plow. Ship. wt., 36 lbs. Price \$1.90  
188B894—Blades with wings. Ship. wt., 14 lbs. Price .96



# Finished Fitted Plow Shares

**\$1.35 and up**

With Bolts Ready to Attach

Right hand shares only, as listed below. When ordering, be sure to give article number, size of share wanted, the name or make of your plow, and the exact figures and letters which are on the back of the old share.

Solid crucible steel shares are made for sandy, gravelly or stony soil. Soft center steel shares are used in heavy or sticky soils, where perfect scouring and hardened wearing face are required. Thickness of all shares, 3/4 inch, unless otherwise shown in list.

CANTON			Size	DEFIANCE		
No. 54	.....	16 in.	No. 97	.....	12 in.	
No. 42	.....	14 in.	No. 97	.....	14 in.	
No. 46	.....	12 in.	No. 92	.....	16 in.	
No. 128	.....	14 in.				
BRADLEY				EMERSON		
No. L 33	.....	12 in.	No. N-14-R	3/4 or 5/16	14 in.	
No. L 45	.....	14 in.	No. N-16-R	3/4 or 5/16	16 in.	
No. L 70	.....	16 in.				
No. 147-5/16 only	.....	14 in.				
CASE			MOLINE			
No. AP	.....	16 in.	No. C 1	.....	14 in.	
No. A S	.....	16 in.	No. F D 11	.....	16 in.	
No. A N	.....	14 in.	No. F D 1	1/4 or 5/16	14 in.	
No. A P	.....	14 in.	No. H 116	.....	16 in.	
No. A D. L-5/16 in.	.....	14 in.	No. FSD 1	.....	12 in.	
only	.....	16 in.	No. D 1	.....	16 in.	
(A S-12 in. Same as A N-12 in.)			No. D 10	.....	16 in.	
CASADAY			OLIVER			
No. 514-5/16 in. only	.....	14 in.	No. 8	.....	16 in.	
No. 516-5/16 in. only	.....	16 in.	No. 8	.....	14 in.	
No. 515-5/16 in. only	.....	14 in.	No. 7	.....	12 in.	
No. 517-5/16 in. only	.....	16 in.	No. DS-8	.....	14 in.	
			No. DS-8	.....	16 in.	
DEERE			ROCK ISLAND			
No. P 33-1/4 or 5/16	.....	14 in.	No. 40-5/16 only	.....	16 in.	
No. 40-1/4 or 5/16	.....	16 in.	No. 30-1/4 only	.....	12 in.	
No. 42-5/16 only	.....	14 in.	No. 32-5/16 only	.....	14 in.	
No. 33-1/4 or 5/16	.....	14 in.				
No. 34-1/4 or 5/16	.....	12 in.				
No. 35-1/4 or 5/16	.....	16 in.				
No. 46-1/4 or 5/16	.....	16 in.				
No. 152-5/16 only	.....	12 in.				
No. 157-5/16 only	.....	14 in.				

PRICES			PRICES		
SOLID STEEL			SOLID CAST STEEL		
Size	Shipping Weight		Size	Shipping Weight	
12 in.	10 1/2 lbs.	\$1.35	12 in.	10 1/2 lbs.	\$2.00
14 in.	12 lbs.	1.50	14 in.	12 lbs.	2.20
16 in.	13 lbs.	1.65	16 in.	13 lbs.	2.50
SOFT CENTER STEEL			SOFT CENTER STEEL		
Size	Shipping Weight		Size	Shipping Weight	
12 in.	10 1/2 lbs.	\$2.00	12 in.	10 1/2 lbs.	\$2.10
14 in.	12 lbs.	2.20	14 in.	12 lbs.	2.30
16 in.	13 lbs.	2.50	16 in.	13 lbs.	2.60

## New Steel Boss Smoothing Harrows



**\$5.40 and up**

Two-Horse-78 TEETH  
springiness and still hold the section in shape. The 4 and 6-horse harrows, furnished with chain equalizer as shown in smaller illustration. All smaller harrows furnished with plain hardwood draw bar only. Teeth bars are made of 1 1/2 x 1/2 inch heavy angle steel. Teeth are 3/4 inch square, made of high carbon steel, dagger pointed; length, 9 in.

288B988-2-Horse, 60 teeth, cut 10 1/2 ft. Shipping weight, 145 lbs. Price... \$5.40  
288B990-2-Horse, 78 teeth, cuts 13 ft. Shipping weight, 190 lbs. Price... \$6.95  
288B992-3-Horse, 90 teeth, cuts 15 ft. Shipping weight, 205 lbs. Price... \$8.15  
288B994-3-Horse, 102 teeth, cuts 16 1/2 ft. Shipping weight, 250 lbs. Price... \$9.10

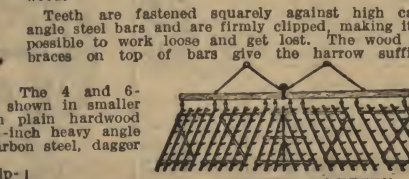
Shipped from factory in Southern Minnesota.

## Steel Tooth Bars with Clipped Teeth

Clips Put On Hot. Teeth Cannot Get Lost

Made entirely of steel, with the exception of the top cross braces and draw bars. Will last indefinitely. The teeth cannot get loose, the bars will neither check nor slip, nor twist out of shape. The asphaltum coating protects the steel better than any paint can protect wood.

Teeth are fastened squarely against high carbon angle steel bars and are firmly clipped, making it impossible to work loose and get lost. The wood cross braces on top of bars give the harrow sufficient



4-HORSE-150 TEETH  
288B996-4-Horse, 138 teeth, cuts 23 ft. Shipping weight, 345 lbs. Price... \$12.25  
288B998-4-Horse, 150 teeth, cuts 26 ft. Shipping weight, 375 lbs. Price... \$13.50  
288B1000-6-Horse, 222 teeth, cuts 37 ft. Shipping weight, 560 lbs. Price... \$21.95

## Climax Closed End Lever Harrows



**\$3.75 and up**

Channel steel bars, attached at ends, prevent tooth bars from catching on obstructions, as sometimes happens in stony or stumpy ground with the open end harrow. U-bars, channel and oscillating bars are made of high carbon steel, and heavy enough to prevent their bending in ordinary use.

Corner braces, oscillating castings and lever castings made of malleable iron. Harrow throughout is strong, well made, and with no unnecessary weight.

Has five bars to each section; levers to set teeth at any angle desired; outer teeth on the first, third and fifth bars with extended loop ends that act as runners for transporting. Furnished with 1/2 x 1/2 inch or 3/4 x 1/2 inch steel teeth. A 25-tooth section cuts 4 ft. A 30-tooth section cuts 5 ft. Hardwood draw bars furnished with 2, 3 and 4-section harrows only. 3/4-inch tooth harrows weigh 5 per cent more than the weights for 1/2-inch tooth harrows given below.

Article Number	Sections	Price, 1/2 inch Teeth	Price, 3/4 inch Teeth	Teeth	Ship. Wt., lbs.
288B1020	1	\$ 3.75	\$ 3.95	25	85
288B1022	2	4.15	4.40	30	90
288B1024	3	8.20	8.75	50	143
288B1026	4	12.25	12.95	60	173
288B1028	5	16.25	17.05	75	200
288B1030	6	20.25	21.15	90	220
288B1032	7	24.25	25.15	100	240
288B1034	8	28.25	29.15	120	286

Shipped from factory in Ohio.



**\$4.90**  
With Spring Seat

288B1050-Price... \$4.90  
Shipped from warehouse near Chicago.

# Olson Tool Steel Adjustable Plow Points

**45c and up** For Right Hand Plows Only



Saves blacksmith bills and every plow owner ought to have a supply of these points at plowing time.

When your plow becomes dull and will not stay in the ground, it takes only a few minutes' time to slip on one of these points and the plow will do as good work or better than it ever did before, even when new. Will wear as long as a drawn and sharpened share and with practically no lost time and very little expense.

Made of Swedish crucible tool steel, long wearing and long lasting, and will fit practically every make of walking or riding plow. Slips on point of share and bolts through landside. No drilling or blacksmith work required. Nearly as firm and solid as if welded on. A bolt with eccentric head is furnished with each point and a slotted end with second inner slot of sufficient adjustability to meet the bolt hole and landside point of nearly all plows. Can be adjusted for depth by turning the bolt. Made in three styles, the No. 1 specially adapted for prairie breakers and for use in the dry lands or where it is difficult to plow deep with the ordinary share; the No. 2 for stubble, and turf and stubble plows with sufficient web to lay over point of share. Either style, 1 or 2, can be furnished with coulters as shown in illustration No. 3. For right hand plows only. Shipping weights: No. 1, 2 1/2 lbs. each; No. 2, 3 lbs.; with coulters, 3 1/2 lbs.

288B914-No. 1, plain, for prairie breakers or deep subsoil plowing. Price, each... \$0.45  
288B916-No. 2, for stubble, and turf and stubble plows. Price, each... \$0.65  
288B918-No. 1 point with coulters. Price, each... 1.05  
288B920-No. 2 point with coulters. Price, each... 1.10

## Ready Plow Shares

Fully welded, and with finished points. Can be quickly and easily fitted to different makes of plows. The landside point sufficiently long so that it can be cut off to fit; holes are not drilled. Any blacksmith can do the work. State size and whether right or left hand is wanted. Shipping weight, 9 to 13 lbs. each.

SOLID CAST STEEL			SOFT CENTER STEEL		
Right Hand	Left Hand		Right Hand	Left Hand	
288B922-12 inch	288B924-12 inch	\$1.10	288B934-12 inch	288B936-12 inch	\$1.50
288B924-14 inch	288B926-14 inch	1.20	288B936-14 inch	288B938-14 inch	1.70
288B926-16 inch	288B928-16 inch	1.30	288B938-16 inch	288B940-16 inch	1.90
288B928-12 inch	288B930-12 inch	1.10	288B940-12 inch	288B942-12 inch	1.50
288B930-14 inch	288B932-14 inch	1.20	288B942-14 inch	288B944-14 inch	1.70
288B932-16 inch		1.30	288B944-16 inch		1.88

## Climax All Steel Lever Harrows

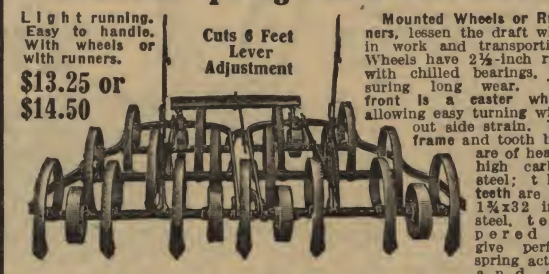
Mellow and finely pulverized soil is necessary for a perfect seed bed, and to insure it—it is best to use the implement best suited for the purpose—a Spike Harrow. Our Climax Harrows have heavy 1 1/2 x 1 1/2 U-shaped steel cross-bars, five bars to each section. Frame is channel steel, of good weight and strength. The U-bars pass through main frame of the harrow and are held in position by clamps. This construction gives great strength to the harrow and at the same time allows flexibility. THE TEETH FASTENERS ARE MALLEABLE. The teeth are 1/2 x 1/2 x 7 1/2 or 3/4 x 7 1/2 in., and may be adjusted to make them cut deep or shallow, as desired; are of good length, forged of extra hard steel, with curved head to prevent dropping out; they can be turned, thus renewing the cutting edge, and by means of the levers can be set at any angle desired, either sliding backward, forward or horizontally. Each section has the "V" braces shown in illustration.

Hardwood draw bars furnished regularly on 2, 3, and 4 section harrows only.

Art. No.	1/2 in. Teeth, Price	Sec.	Teeth	Ship. Wt., lbs.	Cuts, ft.
288B1004	\$ 4.45	1	30	100	5
288B1006	8.90	2	60	220	10
288B1008	13.40	3	90	330	15
288B1010	17.90	4	120	435	20

Shipped from warehouse near Chicago.

## Success Spring Tooth Harrows



**\$13.25 or \$14.50**

Light running. Easy to handle. With wheels or with runners. Cuts 6 Feet Lever Adjustment

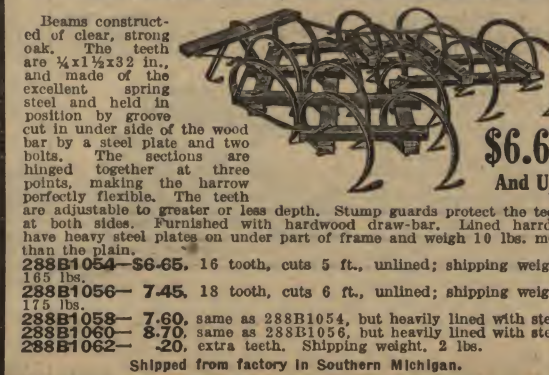
Mounted Wheels or Runners, lessen the draft when in work and transporting. Wheels have 2 1/2-inch rims with chilled bearings, insuring long wear. The front is a castor wheel, allowing easy turning without any effort. The frame and tooth bars are of heavy, high carbon steel; the teeth are 1/2 x 3/4 x 23 inch steel, tempered to give perfect spring action and so trail one another. Each tooth in this way does its own share of work. Each section is equipped with a lever for adjusting the teeth to more or less depth. Made in one size only: 2-section, 17 teeth, cuts 6 feet, and equipped with wheels or runners.

288B1038-Price with wheels. Shipping weight, 305 lbs... \$14.50  
288B1040-Price with runners. Shipping weight, 275 lbs... 13.25  
Shipped from warehouse near Chicago.

## Michigan Spring Tooth Harrows

The Kind that Usually Command \$9.00 to \$12.00 at Retail

The Lined Harrows Have Heavy Steel Plates on Bottom of Frame



**\$6.65 And Up**

Beams constructed of clear, strong oak. The teeth are 1/2 x 1 1/2 x 32 in., and made of the excellent spring steel and held in position by groove cut in under side of the wood bar by a steel plate and two bolts. The sections are hinged together at three points, making the harrow perfectly flexible. The teeth are adjustable to greater or less depth. Stump guards protect the teeth at both sides. Furnished with hardwood draw-bar. Lined harrows have heavy steel plates on under part of frame and weigh 10 lbs. more than the plain.

288B1054-\$6.65, 16 teeth, cuts 5 ft., unlined; shipping weight, 165 lbs.  
288B1056-7.45, 18 teeth, cuts 6 ft., unlined; shipping weight, 175 lbs.  
288B1058-7.60, same as 288B1054, but heavily lined with steel.  
288B1060-8.70, same as 288B1056, but heavily lined with steel.  
288B1062-20, extra teeth. Shipping weight, 2 lbs.  
Shipped from factory in Southern Michigan.

SPRING TEETH			HARROW TEETH		
Made of high carbon spring steel; total length, 32 in.; width, 1 1/2 in.; thickness, 3/4 in. These teeth are the same as used on our Michigan Wood Frame Spring Tooth Harrow. They will fit any of the standard makes of wood frame spring tooth harrows. Shipping weight, each, 5 lbs.			Square Steel Harrow teeth, plain and headed. Shipping weights, per doz.		
1 1/2 x 32 in.	3/4 in.	25c	Size	Plain, per doz.	Headed, per doz.
1 1/2 x 8			1 1/2 x 8	\$0.25	\$0.27
1 1/2 x 9			1 1/2 x 9	.30	.33
1 1/2 x 10			1 1/2 x 10	.40	.45
1 1/2 x 11			1 1/2 x 11	.60	.65
1 1/2 x 12			1 1/2 x 12	1.00	1.12

## Harrow Teeth Holders

Made of Malleable Iron For 1/2 or 3/4 in Square Teeth

Same as used on our Climax All Steel Lever Harrows, having 3/4 in. hole in angle bars. Bolts with nuts to tighten. Shipping wt., each 5 oz.

288B952-For 1/2 in. Teeth. Price, each... 5c  
288B954-For 3/4 in. Teeth. Price, each... 6c

## Climax Gauge Wheel

Can be used on either wood or steel beam, and on any make of plow

Can be set to run straight with the plow when used with two or three horses, so as not to run the plow in or out of the land or scrape along sideways, and cause heavier draft. Made of malleable iron. Shipping wt., 8 1/2 lbs.

288B972-Price, complete, with clamp... 95c

## Plow Bolts

High quality steel plow bolts. Standard in size and shape. With forged nuts. The illustration represents the styles now in general use. No. 1 being key head pattern and No. 3 round head with square shank. Diameter, 3/4 inch. When ordering be sure to state size wanted. Average shipping weight, per dozen, 5 lb.

288B984-Style No. 1. Length Per doz. Length Per doz.  
1 1/2 in. .... 10c 1 1/2 in. .... 11c  
1 3/4 in. .... 12c 1 3/4 in. .... 13c  
2 in. .... 14c 2 in. .... 15c  
2 1/4 in. .... 16c 2 1/4 in. .... 17c

288B986-Style No. 3. Length Per doz. Length Per doz.  
1 1/2 in. .... 11c 1 1/2 in. .... 12c  
1 3/4 in. .... 13c 1 3/4 in. .... 14c  
2 in. .... 15c 2 in. .... 16c  
2 1/4 in. .... 17c 2 1/4 in. .... 18c

## Climax Wood Frame Lever Harrow

Oak Draw Bars—Riveted Teeth

35 Teeth to each section. No loose teeth. No weak parts. 5-bar. **\$8.90**

Made in one, two, three or four sections, each section has 35 teeth and cuts 5 feet by means of levers, the teeth can be set in any desired position for pulverizing, or at any desired angle for smoothing. The bars are made of selected, well seasoned white oak and are formed together in each section to keep the teeth even, thus enabling the implement to level bumps and fill out hollows. The iron braces are located above the harrow bars, so as not to collect the trash or interfere with the depth of work done by the teeth. The teeth are 1/2 x 1/2 x 9 in., securely riveted so that they cannot fall out. Draw bars furnished where more than one section is ordered. No bar is furnished with single section. Shipping weight, per section, 108 lbs.

Article Number	Price	Sections	Teeth	Cut, ft.
288B1012	\$ 9.45	2	60	10
288B1014	14.15	3	90	15
288B1016	18.90	4	120	20

Shipped from warehouse near Chicago.

## Northwest Wood Lever Harrow



**\$9.25 and up**

4 Sizes

For Mulching and Weeding. 40 Teeth to Each Section.

The Frames or bars are made of well seasoned oak, 2 x 2 1/2 in., and firmly braced. Stump guards prevent tooth bars from catching on obstructions. Teeth are 1/2 x 1/2 in., square, hard steel, headed, with a rivet after each tooth. Iron braces to set the teeth at any desired angle. Hardwood Draw Bars included with each harrow. Extra strong construction throughout.

Article Number	Price	Number Sections	Number Teeth	Cuts, Feet	Ship. Wt., lbs.
288B1070	\$ 9.25	2	80	10	179
288B1072	13.90	3	120	15	266
288B1074	19.30	4	160	20	366
288B1076	23.80	5	200	25	443

Shipped from factory in Southern Minnesota.



# Detroit-American Disc Harrows

Formerly Made by the American Harrow Co.—Detroit

For 32 Years the Leading Manufacturers of High Grade Disc Harrows. Originators of the Tongueless Disc Harrows

All Steel Construction \$17<sup>95</sup>

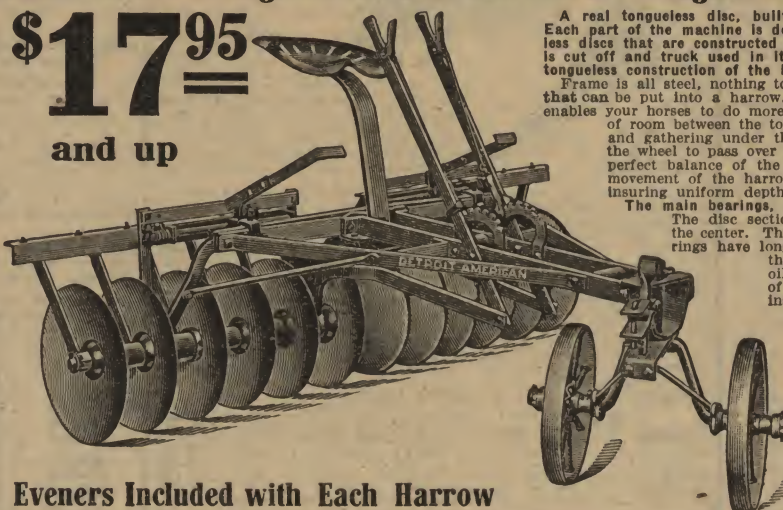
Maple Ring Bearings

Pipe Oilers

Long Blade Scrapers

Independent Gangs

and up



A real tongueless disc, built from the ground up for adaptability to the tongueless idea. Each part of the machine is designed to correspond with every other part. Superior to tongueless discs that are constructed along the old style tongue harrow lines, where the wood tongue is cut off and truck used in its place. They are patch work machines in comparison with the tongueless construction of the Detroit-American.

Frame is all steel, nothing to break, not a pound of needless weight, but has all the strength that can be put into a harrow. This construction gives an easy draft, lessens the strain and enables your horses to do more work. The frame sets high above the ground so there is plenty of room between the tongue and discs and no danger of trash catching under the frame and gathering under the disc blades. Flexible pivot attachment truck to frame allows the wheel to pass over uneven places, stones, and to turn corners without disturbing the perfect balance of the frame. The construction is such that the truck controls every movement of the harrow and keeps the frame parallel with the surface of the ground, insuring uniform depth of cutting all over the field.

The main bearings, into which the standards set, take every bit of the end thrust. The disc sections can be operated independently without bumping together at the center. The end thrust is taken up by hard maple rings boiled in oil. These rings have long wearing qualities. When they become worn after long service they can be replaced easily at trifling expense. The bearings are oiled by means of tubes or pipes projecting above bearings, out of the way of any dirt carried around by the disc blades. This insures clean, smooth bearings and convenience in oiling.

Here is one of the many testimonials received from users of Detroit-American Harrows.

Gentlemen—The Disc Harrow I bought of you has been a good one. Have disced many hundreds of acres with it and all my neighbors have borrowed it and all agree it runs much better and lighter than any other make they have ever handled or hitched to, and there are many makes and styles. I have done most of my disking with two horses, and I am able to disk as much in a day with two horses as my neighbors with other makes do with three horses. Should I be in the market when this one wears out, I shall want to purchase another 6-foot, 16-inch size. I remain as ever

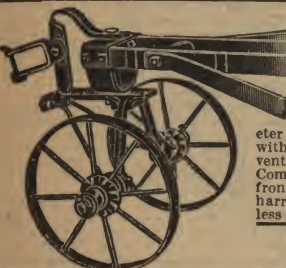
(Name and address furnished on request.)

## Announcement

We have secured the rights and privileges to have manufactured the line of well-known Disc Harrows, Cultivators and Manure Spreaders, for thirty-two years manufactured and sold by the American Harrow Company. The tools produced by them have an enviable reputation. This, as well as the high grade construction, will be kept up by us, and at greatly reduced prices.

Renovals or repairs for any of the Detroit-American implements shipped within the last ten years can be furnished promptly by us.

## Eveners Included with Each Harrow



Showing trucks and construction of connecting frame. Made practically entirely of steel. Has flexible pivot or kingbolt attachment to the frame. Draft is at one point, whether using 2, 3, or 4 horses. Diameter of wheels, 16 inches, with 3-inch oval tires that prevent cutting into the soil. Compare the truck and the front frame construction of our harrows with so-called tongueless discs.

### Steel Weight Boxes



When desired, we can furnish weight boxes for any of our Disc Harrows except the 4-foot 8-disc size. Weight boxes are not needed for Cut-

The adjustable standards are a new and important feature. By means of slots and adjustable bolts, the standards can be let out at each side to spread the gangs and to prevent them from striking in the center. They can also be adjusted to bring them closer together.

Shifter Bars. Connected to lever. Are evenly curved along upper surface in order that they may exactly meet the lower end of the "hold-downs," so that no matter where the lever is set, they hold the section level. This insures level cultivation.

Long Blade Scrapers. Made of special tempered steel. Extend from the scraper bar to a point near the center of the disc. Are operated by a foot lever convenient to the operator and automatically released by coil springs when the foot pressure is removed.

Eveners. With the 4 ft., eight-disc harrows, we include a two-horse evener. With the 5 ft. and 6 ft. harrows, three-horse evener is furnished. With the 7 ft. and 8 ft. harrows, 4-horse evener is furnished. Weight boxes are extra at prices shown.

Prices on round blade disc harrows.					
Art. No.	Width Cut	Number of Discs	Diam. Discs	Ship. Weight	Price
288B1100	4 ft.	8	16 in.	347 lbs.	\$17.95
288B1102	5 ft.	10	16 in.	374 lbs.	19.90
288B1104	6 ft.	12	16 in.	422 lbs.	21.60
288B1106	7 ft.	14	16 in.	458 lbs.	23.80
288B1108	8 ft.	16	16 in.	524 lbs.	26.65
288B1110	10 ft.	20	16 in.	621 lbs.	29.35
288B1112	7 ft.	12	18 in.	460 lbs.	22.57
288B1114	7 ft.	14	18 in.	503 lbs.	24.95
288B1116	7 ft.	16	18 in.	574 lbs.	28.60
288B1118	6 ft.	12	20 in.	484 lbs.	24.50
288B1120	7 ft.	14	20 in.	538 lbs.	26.75
288B1122	8 ft.	16	20 in.	606 lbs.	29.00

Article No. 288B1124. Steel Weight Boxes, for all sizes except the 4 ft. harrows and the cutaway harrows, per pair, shipping weight, 15 lbs. Price...\$1.00

Prices on harrows with cutaway blades					
Article No.	Width Cut	Number of Discs	Diameter Discs	Shipping Weight	Price
288B1126	4 ft.	8	16 in.	339 lbs.	\$16.50
288B1128	5 ft.	10	16 in.	364 lbs.	18.10
288B1130	6 ft.	12	16 in.	410 lbs.	21.25
288B1132	7 ft.	14	16 in.	444 lbs.	22.75

Shipped from warehouse near Chicago.

## Detroit-American Catalogue

If you are interested in the purchase of a Harrow, Cultivator or Manure Spreader, we want to send you a copy of the Detroit-American Catalogue. The Detroit-American line bears a reputation second to none in this country, and you can make no mistake if you purchase farm machinery bearing this name. If you are not already familiar with Detroit-American goods, you owe it to yourself not to purchase until you learn all about them.

The special Catalogue will be sent postpaid on request. Just drop us a postcard and say, "Send me your Detroit-American Catalogue."

\$1330 or \$1445



## Climax Reversible Disc Harrow and Cultivator

A Handy Tool for the Farm

As a Harrow it is especially desirable on small farms or truck farms, as it can readily be handled by two horses, and harrows as well as the larger sizes. As a cultivator it is a valuable addition to your line, whether your farm is large or small.

Can be used either as a harrow or cultivator, as the discs can be set at any angle and are reversible. The gangs can be set close together for harrowing or can be separated 1 1/4 inches for cultivating corn, hilling potatoes, tobacco, etc. Discs can be arranged to throw the dirt in or out. Has strong steel frame with malleable adjusting plates that can be set rigid and will stay in position at any angle desired. Diameter of discs, 16 in., of high quality steel. Boxes or bearings are hard maple, oil soaked and enclosed in dust-proof boxes. Regularly furnished complete with disc scrapers, spring seat, doubletrees and neck yoke.

288B1148—With 6 discs. Shpg. weight, 225 lbs. Price...\$13.30  
288B1150—With 8 discs. Shpg. weight, 240 lbs. Price...\$14.45

Shipped from warehouse near Chicago.

## Banner Arch Frame Disc Harrow

Sets high, less liability to gather cornstalks, trash, etc.

FRAME is angle steel, 2 1/2 x 3 1/2 inches, fitted with iron connecting standards.

LONG FLEXIBLE STEEL SCRAPERS: Work freely, clearing the blades from center to outer edge of discs. Operated independently by foot pressure.

GANGS are bound together in a thoroughly substantial manner. Dividing spools, shafts, etc., are of a very heavy pattern.

JOURNAL BOXES are cast, chilled and dust-proof, with hard oil grease cups. Bumpers fit in end of axles prevent side pressure on journals.

EQUIPMENT: Three-horse evener furnished with 10 and 12 discs, and 4-horse evener with all larger harrows. If 4-horse is wanted with 10 or 12 sizes in place of 3-horse, allow extra \$1.00. Three-horse equalizer is improved pattern, with pole in the center. This does away with the stub pole and attachment.

LEVERS are conveniently placed, one for each gang, for giving uniformity of depth in work on hillsides.

DISCS high-grade, oil-tempered steel, polished on both sides.

288B1160—5-ft. cut, 10 discs, 16 in. Shpg. wt., 370 lbs. Price...\$16.45  
288B1162—6-ft. cut, 12 discs, 16 in. Shpg. wt., 405 lbs. Price...18.25  
288B1164—7-ft. cut, 14 discs, 16 in. Shpg. wt., 445 lbs. Price...19.50  
288B1166—6-ft. cut, 12 discs, 18 in. Shpg. wt., 430 lbs. Price...21.00  
288B1168—7-ft. cut, 14 discs, 20 in. Shpg. wt., 520 lbs. Price...24.00

Shipped from warehouse near Chicago

## High Arch Frame. Won't Catch Trash

\$16.45 TO \$24.00



## Climax Disc Harrow Trucks

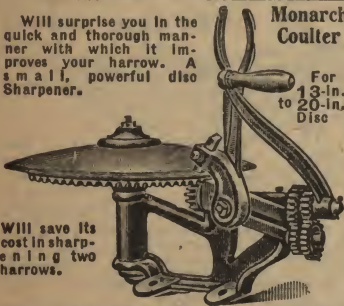
Can be used on any disc harrow by sawing off the regular tongue near the ends of the tongue braces. Your harrow, with truck, will give better service with less work on the horses. A relief to the horses and driver; prevents violent jerking and neck weight of tongue.

Our Climax Trucks are exceptionally well made, strong and durable, easily adjusted and easily attached to stub tongue. Two holes only bored in tongue are sufficient to attach them. A great relief to horses and does away with the constant worry caused by the unwieldy tongue. There is less tendency to side draft, as the harrow follows the truck. They make harrowing easier on the horses, as well as the driver, and are especially desirable where spirited horses are used.

Constructed almost entirely of steel and have sufficient strength to stand the hardest use on our harrows. Wheels are steel, diameter, 16 in., with 3 in. wide, oval shaped tires, and dust-proof, oil-retaining boxes. Furnished with clevis to which evener is attached, the draft being directly in line with stub tongue. Regularly furnished to use without tongue; an offset with tongue plate to attach tongue furnished extra when ordered.

288B1178—Tongueless Truck. Weight, 65 lbs. Price...\$4.40  
288B1180—Offset axle with tongue plate to attach guiding tongue when needed on hillsides or slopes. Shpg. weight, 18 lbs. Price...\$4.90

Shipped from warehouse near Chicago



## Monarch Disc and Coulter Sharpener

Will surprise you in the quick and thorough manner with which it improves your harrow. A small, powerful disc sharpener.

Will save its cost in sharpening two harrows.

Can be bolted to bench or plank or upright post. The post of the machine makes it convenient to put on the disc. All farmers know that discs must be kept sharp to do good work, and especially to cut hard ground or sod land. With this sharpener, if the disc is bent or warped it can be straightened, which is not possible on a great many other machines of this kind on the market. The only proper way to sharpen blades is to take them off and really sharpen them.

Has centering device to accurately center any disc. No clattering or jumping of the cutter. Improved roller carrier steadies discs. Double gear makes disc revolve slowly and gives great power to the machine. All cast working parts, steel shafts. Full directions with each machine.

288B1190—Price, shipping weight, about 42 lbs. Price...\$2.85  
288B1192—Extra tool steel knives. Each, weight, 4 oz. Price...1.25  
288B1194—10x2 1/2 in. Pulley to use with power, weight, 10 lbs. Price...1.75

## Climax Disc and Coulter Grinder

For Grinding Blades 12 to 24 inches in diameter. If you have a disc harrow, you need our Climax working, quick-grinder. Automatically turns the disc when grinding. Especially adapted for grinding discs, but can also be used as a tool grinder. A unique feature, whereby the disc is turned and the grinding done by turning one crank, simplifies the operation and makes easy grinding with no other labor than that of turning of the crank. It is easily and quickly adjusted to grind either 12 or 24 inch discs, or any intermediate sizes. Has machine-cut driving gears, encased in dust-proof gear case, making it very serviceable for tool grinding. Disc is held against the grinding wheel by means of a spring-controlled steel roller.

Shipping weight, 19 lbs. Price...\$3.20  
288B1264—Price, complete...\$3.20



## Disc Harrow Blades

Concave disc blades of same quality as used on all standard makes of disc harrows. Made of high grade, oil-tempered steel. Three sizes, 16, 18 and 20-inch, all have 1 1/4-inch square hole to fit 3/4-inch shaft. Shipping wts., 7, 9, 12 lbs. respectively.

16 in. Disc. Blade

Art. No.	Width	Gauge	Price
188B1214	16	11	40c
188B1216	18	10	50c
188B1218	20	9	70c

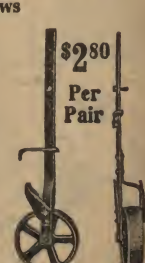
## Climax Transport Trucks

For Disc Harrows

A SIMPLE AND INEXPENSIVE METHOD OF TRANSPORTING YOUR DISC HARROW FROM ONE FIELD TO ANOTHER, ACROSS ROADS, ETC., WITHOUT THE DANGER OF DAMAGING THE DISC BLADES, AND AVOIDING CUTTING UP THE ROADS.

The trucks consist of steel standard or upright, with extension arms on which the axle disc harrow rests, and the sliding clamp that attaches to frame at top of harrow. Each one handled individually. More easy to handle than the connected trucks, as one can be put on at a time. Very easy to attach or detach. If you have a disc harrow you need a pair of these trucks. Weight, per pair, 50 lbs.

288B1184—Price, per pair...\$2.80  
Shipped alone or with Banner or Climax Harrows from warehouse near Chicago.





# Farmer's Friend Fanning Mill

No. 25 Link Chain Used on Bagger.  
Steel Reinforced Tin Buckets

One of the Best Known Cleaners and Separators.

Sells at Retail at Nearly Double Our

Prices. You Can't Buy a Better,  
Similar Mill at Any Price

\$12<sup>45</sup>  
To  
\$24<sup>75</sup>

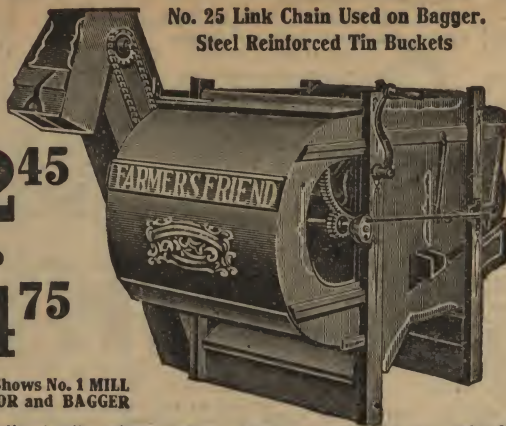


Illustration Shows No. 1 MILL  
with ELEVATOR and BAGGER

288B1300—No. 1 mill without elevator. Shipping weight, 170 lbs.	\$12.45
288B1302—No. 2 mill without elevator. Shipping weight, 185 lbs.	16.75
288B1304—No. 1, with elevator and bagger. Shipping wt., 220 lbs.	18.95
288B1306—No. 2, with elevator and bagger. Shipping wt., 240 lbs.	24.75

Extra Outfits		No. 1	No. 2
288B1308—Cleaning beans	1.55	\$1.55	\$1.80
288B1310—Cleaning peas	1.55	1.55	1.80
288B1312—Cleaning flaxseed	1.20	1.20	1.50
288B1314—Separating oats from wheat	4.20	4.20	4.50
288B1316—Separating mustard seed from oats	1.60	1.60	1.85
288B1318—Cockle attachment	1.15	1.15	1.50
288B1320—One long mesh screen to separate chaff from wheat	.80	.80	.95
288B1322—Succotash hurdle in place of grain hurdle	1.30	1.30	1.95
288B1324—Rice outfit in addition to regular outfit	\$4.60	\$5.40	
288B1326—Rice outfit in place of regular outfit adapting mill for rice only	2.00	2.65	
288B1328—Corn grading attachment	3.25	3.90	
288B1330—Cleaning millet seed	1.15	1.40	
288B1332—Cleaning broom corn	1.55	1.80	
288B1334—Cleaning alfalfa seed	1.15	1.40	
288B1336—Cleaning orchard grass	1.60	1.90	
288B1338—Cleaning timothy seed	1.15	1.40	
288B1340—Cleaning clover seed	1.15	1.40	

Note—We can furnish a sheet steel drum in place of wood, and also use carriage bolts on hanger straps, shaft boxes and shake elbow boxes, in place of screws. These additions are especially desirable on export orders or for warm climates where wood easily warps or checks.

288B1342—Extra for these changes No. 1 No. 2  
Shipped from warehouse near Chicago. \$1.65 \$2.35

## Climax Seed Grader and Crop Breeder

There probably is no other implement on the farm that will give as big returns for so little expense. Increase Your Crops 20 to 30 per cent on a Small Investment. You cannot do without it and get the best out of your land. With our Climax you not only increase your crops so that the extra production of 6 to 10 acres in one season will pay for the grader, but you improve the quality of your grain so that you can command the highest prices.

### Make your Crops Keep Pace with Increasing Land Values

Your land is increasing in value every year. If it does not produce crops in proportion to its increased value, it isn't making you as much money as it was before, because your taxes on it are generally higher. That is why you should use every available means of increasing your crop production. And that is why you should effect this increase by grading your seed.



Special Circular  
Sent on Request

**Operation**  
The purpose of our Climax Seed Grader and Crop Breeder is to select only the best kernels for planting. The selection or separating is done by blair, by which each kernel is weighed. A sound, live kernel, containing the germ of vegetable oil necessary to germination, is considerably heavier than the unsound kernel that will not produce. The Climax makes a fine distinction, throwing out the light or unsound, and retaining the heavy sound seeds. There is no other method in use at the present time by which this separation can be made. Fanning mills separate the large from the small only, regardless of whether they are sound or unsound. By using the Climax, you are enabled to plant only the very best of your seed. Tests have proven that it will insure 95 per cent good seed when properly operated. Of the many tests made, principally under the direction of the agricultural colleges, it has been proven that the careful use of our Climax Seed Grader, you not only save one-quarter to one-third of your land on which unsound seed has been planted, but you save the time wasted in planting as well. The selection of your best and heaviest seeds tends to constantly improve the quality and quantity of your crop from year to year. You can take a quantity of grain from your bin, run it through the grader, select the largest and heaviest kernels for planting, and the balance can be put back in the bin without reducing the grade or marketable value.

**Construction**  
The Climax is free from any complicated mechanism that is liable to get out of order or give trouble. It is a simple arrangement by which the air blast is properly distributed, so that when the grain is fed from the hopper into the separating channel, the weighing is done by the air blast that forces out all seeds that do not come up to the weight, and retains the big, live, sound kernels. The frame is of hardwood, sufficiently heavy and strong to easily stand double the usage that is required of it. The drum, air chamber and air valves, for the regulation of air current, are constructed of sheet metal. The valves or dampers regulate the air current, the upper or lower main valve determining the force of blast for the kind of grain cleaned, and can readily be set for the kind of grain or seed that is to be cleaned. A sliding pole is attached to the valve bar that is on the outside of the machine, convenient to operator. The lower valve acts as a governor, or safety valve, by automatically opening in case the speed or draft is increased too much, thereby regulating the force of the air current. There is nothing about the machine to wear or give out, and repairs are therefore reduced to practically nothing. There is not a sieve, screen, or shaker, and no cog wheels or other parts that can get out of order, or wear out through ordinary use. With a little practice and experiment, any one can readily become familiar with its operation, and grade all kinds of seeds, from the smallest grass seed up to and including corn. Complete printed directions for operating with each grader.

### Climax Seed Corn Dryer

Practical, Satisfactory and Economical Rack for Drying Corn.  
Capacity, 600 Ears

Requires a space only 2 ft. wide and 6 ft. long and can be used in any space up to 2 ft. wide. Capacity, 600 ears of corn. The ear of corn slips over the hook. Same number of ears can be placed on either side of rack and in straight rows, up and down or straight across. This method renders it easy to count them when testing, and all ears are on the outside so that all can be seen at a glance. Hooks are made of galvanized steel. The cross bars are of stiff bar steel, and will not sag. No two ears touch. Very strong, and will last indefinitely. Shipping weight, 70 lbs.

288B1368—Price, complete, \$5.95  
Shipped knocked down from factory in Iowa.

### Seed Corn Drying Racks, \$1.25 PER DOZEN

Made Entirely of Steel. Better Than Any Wood Rack  
Each rack holds 24 ears of corn. The sides or frame made of 16-gauge steel, slatted in center and formed on each side, making them rigid. The holders are heavy galvanized wire, spaced 2½ in. apart. They can easily be taken off and put on, so that for shipping, or when through using, they can all be collapsed into a flat package, taking up very little space. The frame is supported by bolt flays with nuts, making them easily taken apart. Packed in crates of one dozen or three dozen. We cannot break crates or sell less than dozen lots at these prices. Shipping weight, one dozen crates, 17 lbs.  
188B1372—Price, per crate of 3 dozen racks \$3.54  
188B1374—Price, per crate of 1 dozen racks 1.25

### Iowa Corn Grader

Clever, Handy and Serviceable  
Little Corn Grader 72c

The Iowa is a 3 Grade Grader, that is, it eliminates Two Grades of Undesirable Kernels, and Gets One Perfect Grade for Planting. Same as the High Priced Graders. It is made in two compartments, the first or larger compartment permitting two grades of the smaller grain to go through. After grading out the smaller kernels and turning the movable partition in center, allows all of the balance to flow to the smaller compartment by slightly tipping. In the smaller compartment, the corrugation allows the planting grade of uniform size to go through, keeping back the extra large kernels. The screen is of galvanized steel, the frame of wood. Never clogs, as the act of emptying or transferring the corn to the other compartment automatically cleans it. No re-venting, turning over or adjusting. Very simple and durable. Size, 12½x21½ in.  
188B1380—Shipping weight in carton, 3½ lbs. Price \$2.00

## New Lakeside Fanning Mill



Capacity,  
30 to 50  
Bushels

\$10<sup>85</sup>

Just the mill for the average farmer who uses it only occasionally and does not want to invest any more money than is necessary. While it is very low in price and does not compare with our Farmer's Friend, it is nevertheless made strong, of good material, well put together, is full size, large capacity, and will do as satisfactory work and clean as much seed, and as thoroughly, as mills that sell at retail at \$4.00 to \$6.00 more.

The frame is made of hardwood, securely screwed and braced. Has a very short and quick side shake for movement of shoe, and larger screening surface than ordinary mills. Shoe is held in perfect position, preventing grain from gathering to one side. Shake is obtained by an eccentric driven by a large gear wheel. Sieves are 24 in. wide.

The regular outfit consists of one gang of sieves for wheat, one wheat grader, one wheat screen, one one sieve, one barley sieve and one chess board, adapting it for cleaning and grading wheat, oats and barley. Extra sieves for other purposes can be furnished at prices as quoted under our Farmer's Friend Fanning Mill No. 1. Shipping weight, 150 lbs.  
288B1348—Lakeside Mill, complete. \$10.85

Shipped from warehouse near Chicago.

## Brown's Seed Corn Tester

A PERFECT, SIMPLE, COMPACT AND SATIS-  
FACTORY TESTER. MADE OF WOOD. OVER  
35,000 FARMERS IN IOWA TESTED  
CORN LAST SEASON  
MORE CORN PER ACRE—EVERY  
HILL A GOOD ONE

Select at least 14 ears of corn for each acre you expect to plant the coming season. Then test each ear for germination with a Brown's Tester, the best ones only, and you are practically sure of a big increase in your crop. A card of instructions is furnished with each outfit, explaining in detail how to select your corn how to use the best after the test, how to arrange and operate the tester, and other valuable, general information. Only a small amount of space is required. It can readily be set behind the stove or to one side, out of the way.

The complete tester includes 12 racks for drying the corn. Each rack holds 24 samples from test ears. Entire set of racks will hold test samples of 288 ears. The seed box consists of 12 separate compartments, lettered from A to L. Each compartment has a series of twenty-four 1½-in. holes to be filled with sand, in which are placed about six grains of corn taken from each ear on the rack. Two measuring strips bearing numbers are furnished with each outfit to designate the hole that corresponds with the ear from which the seed is taken.

Moisture hole in each seed chamber allows the moisture to flow from one compartment to the other. Pan is supplied at the bottom to catch all seepage. Two wire balls with wooden wedges hold the 12 compartments in one solid package.  
188B1356—Complete outfit (shipping weight, boxed, 50 lbs.). Price \$3.20

**Seed Corn Dryers**  
One of the Most Convenient and Economical Dryers for Taking Care of Your Corn. Capacity, 200 Ears.  
Dryer consists of specially constructed galvanized steel wire chain, with large hook at one end and 200 heavy crimped galvanized wires that go into the butt end of ears and hook on chain. Takes up very small space, and can readily be hung in buggy shed, corn crib, or elsewhere. Air space of 6 inches through center, as hooks go only half way into cobs. Will thoroughly dry corn in six weeks.  
188B1360—Price, per set, to hold 200 ears. Ship. wt., 5½ lbs. 78c

## Climax Seed Corn Tester

INCREASE YOUR  
YIELD PER ACRE  
WITH LITTLE  
TROUBLE OR  
EXPENSE.

A complete, convenient method of testing your seed corn or other grain. Consists of a large pan with partitions, all made of heavy galvanized steel. Partitions are removable for easy cleaning after testing. Can test samples from 105 ears at one time. Compartments are numbered, and corresponding tags are furnished with nails to attach to the ears of corn. Has all the advantages of high priced testers. Complete directions with each. Shipping weight, in carton, 4½ lbs.  
188B1364—Price, each \$9.50



# New Climax Grain and Clover Drill

18 Disc, 4 Inches Apart. Sows Less Seed to the Furrow.  
Drills More Furrows.

Complete Outfit for All Kinds of Grains and Grass Seeds, with  
Fertilizer. Sows Seeds and Fertilizers in Rows Only 4-inches Apart

For Wheat, Oats, Barley Rye, Soy Beans, Alfalfa, Red Mammoth  
or Japanese Clover, Timothy, Orchard Grass, Cow Peas, Etc.



One Machine  
to do the  
Work of Many  
Only one to house  
when not in use

**\$98.00**

Our New Climax Combination Drill with its many important advantages, makes it one of the most desirable drills used on the farm. Its completeness, and the many uses that the average farmer has for it, makes it far more economical than the purchase of several separate drills that would be required to do the same work.

It will accurately sow the small, expensive seeds such as alfalfa, blue grass, clover, etc. You can drill clover in your winter wheat and cultivate the wheat with one operation. A fine stand of clover can be secured by drilling from 6 to 8 pounds per acre, insuring a far better yield than when the clover is broadcasted with a great amount of waste. It is estimated that in drilling clover alone, 30 acres will pay for the drill in the saving of seed and increase of crop over the usual method of broadcasting.

You increase your yield nearly double over the seven and eight inch drills by sowing with a New Climax Combination Drill in furrows four inches apart. The increased yield is obtained with the same operation. It means more plants to the square foot, and a seed saving on account of even distribution.

One hopper only is furnished with drill, but is divided into two parts: one for grain and grass seeds, and the other for fertilizer. Has agitator to force seed, insuring uniformity. Hopper is equipped with an acre measure and a quantity indicator with a large range of quantity adapting it to the requirements of most any farmer. Hopper holds approximately 2 bu. of grain, and will sow from 75 up to 600 lbs. of fertilizer per acre, as desired.

Has lever on side of hopper to raise discs, A strong lifting spring aids the lever so that a boy

can easily and quickly raise discs out of ground when required.

The discs, 18 in. all, are high carbon steel, self sharpening, and 10 in. diameter. Diameter of drive wheels, 36 in. with 3 in. tires.

Wheels do not extend above top of hopper and therefore prevent dirt being carried up on the hopper as happens with high wheels.

Sows about two corn rows in width, or 84 in. wide. Width of drill from out to out of wheels, 8 ft.

A timothy attachment is regularly furnished on the front of the machine so that timothy, clover, alfalfa, and other small seeds can be broadcasted in front of the discs when drilling wheat in the fall, if the operator so desires.

Can be used for cultivating crop without injury to the tender roots by throwing the clutch out of gear and using the drill as a disc cultivator. Plenty of clearance between each disc. No trouble in trashy or corn stalk ground.

Seed or fertilizer has direct drop from the time it leaves the hopper until deposited in the furrow; no chance for clogging.

When fertilizer is not used, throwing the fertilizer lever out of gear automatically disengages all of the fertilizer parts.

The complete equipment includes combination hopper for grain, small seeds, and fertilizer; timothy attachment; pole with neck yoke and double trees; acre measure; and quantity indicator. Complete directions for operating. Shipping weight, complete, 1,020 lbs.

**288B1400—New Climax Combination Drill complete. Price . . . . . \$98.00**

Shipped from factory in Ohio.

# Seed Drills

Built by one of the most prominent manufacturers of seeding machinery.  
The frame is built of one continuous piece of 1 1/4-inch steel pipe, bent at corners and securely braced. 10 disc drills have frames reinforced by single rear steel truss rods as shown. 12, 14 and 16 discs have double truss in front and single truss in rear. This construction prevents any danger of sagging in center.

The Gear Box is placed on axle that provides for increasing or decreasing the quantity of seed sown. Dial plate in view of the operator shows the quantities to be sown in pecks. On the square shaft of the gear box are three sprocket wheels, the smaller being used to sow wheat in ordinary quantities and the larger to be used when excessive quantities are to be sown, such as long bearded oats, etc.

Discs are concave, 13-in. diameter, and hung in correct line for light draft. Extension of boot acts as scraper for disc, also as furrow opener for the seed bed. Disc pressure consists of coil oil tempered steel springs applied at rear of boot. A ratchet lever applies any desired pressure.

Drag Chains level the ground after the seed is deposited. The two end chains are automatically carried clear of the ground wheels when turning. Tubes are spring steel wire, Japanese, and will last indefinitely. Diameter of wheels, 48 in.; have wood rims and spokes, and iron hubs. 8, 10 and 12 disc drills have 3-in. tires. 14 and 16 disc drills have 4-in. tires. Axle is 1 1/2-in. cold rolled steel on drills up to 12 disc; 1 3/4-in. on 14 and 16 disc drills.

Furnished as a grain seeder only, or combination fertilizer and grain drill with grass seed attachment

**288B1402—8 discs, 8 in. apart, single lever, 2 horse eveners. . . . . \$42.75**  
**288B1404—10 discs, 7 in. apart, single lever, 3 horse eveners. . . . . 51.00**  
**288B1406—10 discs, 8 in. apart, single lever, 3 horse eveners. . . . . 51.00**  
**288B1408—12 discs, 8 in. apart, double lever, 4 horse eveners. . . . . 60.50**  
**288B1410—12 discs, 8 in. apart, double lever, 4 horse eveners. . . . . 61.00**  
**288B1412—14 discs, 7 in. apart, double lever, 4 horse eveners. . . . . 68.25**  
**288B1414—16 discs, 7 in. apart, double lever, double tongue, 4 horse eveners. . . . . 75.00**  
**288B1416—Iron seat for either size drill, with spring convenient to levers. Weight, 15 lbs. Extra . . . . . 2.00**

**288B1418—Force Feed grass seeder, fitted with deflector seed board, to sow in front or behind the discs. For 8 and 10 disc sizes; extra weight, 30 lbs. . . . . \$3.00**  
**For 12, 14 and 16 disc sizes, extra weight, 50 lbs. . . . . 3.60**

**288B1420—Alfalfa seeder, for sowing direct into grain apouts with grain or separate, as desired, fitted to 8 and 10 disc drills, extra shipping weight, 15 lbs. . . . . \$4.75**  
**For 12, 14 and 16 disc drills; extra shipping weight, 20 lbs. . . . . 5.75**

# Climax Disc Drills \$42.75 and up

With Chain Covers. With or Without Fertilizer  
Alfalfa and Grass Seeder if desired.  
Steel Wire Tubes.



for sowing all kinds of grass seed. Also with alfalfa grass seeder, especially adapted for sowing alfalfa. Grain feed is double foot feed. Will sow all kinds of seeds continually, peas and beans included. A dial in view of the operator shows the number of acres sown. This dial stops when the seed is out of gear. The fertilizer can be thrown in and out of gear independent of the grain hopper.

A Force Feed Grass Feeder fitted with deflector seed board furnished at extra charge. This enables the operator to sow either in front or behind the discs, or for broadcasting only. Alfalfa seeder attachment, for sowing alfalfa into grain hoppers with the grain or separate, furnished at extra cost.

Directions furnished with each drill. Weights of drill only, range from 1,025 to 1,750 lbs.

Illustration shows driver's seat. Seat is furnished only when ordered, at an extra charge, as many prefer to walk.

Drill with Fertilizer . . . . . \$58.75  
Drill with Fertilizer . . . . . 69.00  
Drill with Fertilizer . . . . . 69.00  
Drill with Fertilizer . . . . . 81.00  
Drill with Fertilizer . . . . . 81.25  
Drill with Fertilizer . . . . . 81.25  
Drill with Fertilizer . . . . . 101.00  
Drill with Fertilizer . . . . . 2.00

Shipped from factory in Indiana.

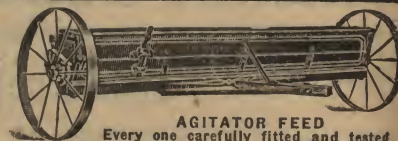
# Reliable Broadcast Seeder

For Broadcasting Wheat, Oats, Rye, Barley, etc.

The hopper is U shaped, length, 11 ft.; thoroughly bolted together, and has three partitions extending to top of box. The adjustment for the proper amount of seed to the acre is quickly made. The main shaft which bears the entire weight of seed box is 1 1/4-in. solid steel, 36-in. steel wheel with 2 1/4-in. tire.

Can ride or walk as desired. Directions with each. Doubletrees, singletrees or neck yoke not furnished. Shipping weight, 385 lbs.

**288B1428—Price . . . . . \$15.25**  
**288B1432—Grass Seed attachment for either style, extra weight, 15 lbs. . . . . \$3.10**



AGITATOR FEED  
Every one carefully fitted and tested

**288B1430—Reliable Broadcast Seeder. With Force Feed in place of Agitator Feed. Price . . . . . \$22.00**

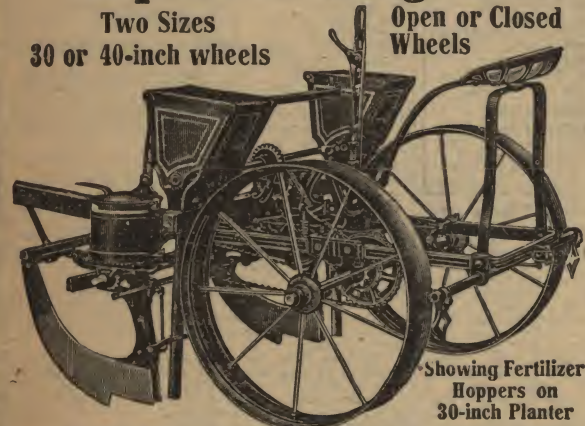
Shipped from factory in Indiana.

# Improved King Corn Planter

Two Sizes  
30 or 40-inch wheels

Open or Closed  
Wheels

Over 15,000 satisfied  
Users consider the  
Improved King  
Second to None



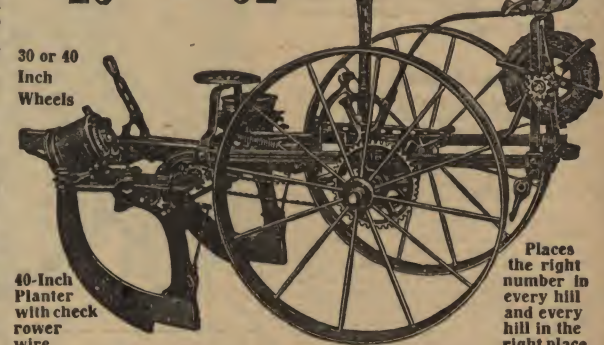
Showing Fertilizer  
Hoppers on  
30-inch Planter

Shipping weights range from 450 to 600 lbs.  
**288B1436—Without check rower or wire. Otherwise complete. . . . . \$23.75**  
**288B1438—With check rower, reel of 80 rods of wire and marker. . . . . 28.25**  
**288B1440—Price of fertilizer attachment extra. Ship. wt., 150 lbs. . . . . 9.25**  
**288B1442—Price extra check rower wire with check-buttons from 3 to 4 ft. apart. (State size, otherwise will send regular 3 ft. 8 in. size.) Weight, per rod, about 1/2 lb. Per rod . . . . . 3/4c**

Shipped from factory in Indiana.

Our Improved King is what is known as an accumulative pattern and is a drill drop; or can be operated as a hill drop with the check rower attachment; or as a hand drop by putting an extra man on in front; or may be operated as a foot drop by the driver. As a drill drop it will drop the grains either 10, 12, 14, 16 or 22 in. apart, according to the seed plate. As a hill drop, the number of grains in each hill is also controlled by the seed plate. Adjustability—These planters are all made so that they can be narrowed up or widened out, and can be set to plant corn in rows 3 ft. 4 in., 3 ft. 6 in., 3 ft. 8 in., or 3 ft. 10 in. Planters are usually set with the runners 3 ft. 8 in. when they leave factory. Frame is all metal. Parts that are subjected to strain are of steel or malleable iron, giving it both strength and durability. It is fitted with a lever with device by which planter can be locked at any given depth to suit conditions of the soil. This can be done without stopping the team. Furnished with 30 or 40-in. wheels. The 40-in. planters have higher frame and are otherwise constructed in the same proportion. Furnished with open or concave closed wheels and five sets of plates. We will always ship with closed wheels unless open wheels are ordered. Doubletrees, singletrees or neckyoke not furnished.

**\$2375 to \$3290** Round Steel Tilting Hoppers



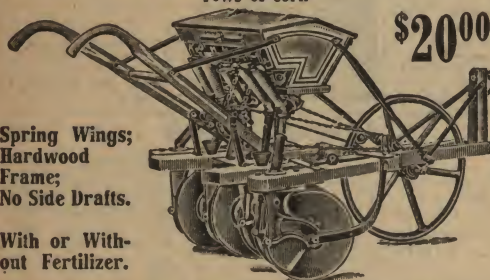
30 or 40  
Inch  
Wheels

40-Inch  
Planter  
with check  
rower  
wire

Places  
the right  
number in  
every hill  
and every  
hill in the  
right place.

# Climax 5 Disc Grain Drill

For wheat, oats, rye and barley. Especially adapted for use between  
rows of corn



**\$20.00**

Spring Wings;  
Hardwood  
Frame;  
No Side Drafts.

With or With-  
out Fertilizer.

Covering discs are hung V shape, securing lightness of draft, and proper clearance of obstructions. Outer wings are bolted independently to frame in front and kept extended by pressure spring working automatically, allowing them to pass the corn hill out of line as well as other obstructions. Heavy steel yokes prevent riding out of ground, also regulate extreme width of cut. Width of cut is readily changed for any size row from 3 ft. 4 in. to 3 ft. 10 in. inclusive. Discs are concave, diameter, 13 in. The drill itself will cut from 29 to 36 inches. Boots that carry seed are bolted firmly to the frame and carry the disc in correct line. Extensions of boot act as scraper for the disc, and also acts as a furrow opener, providing a seed bed of proper width.

Furnished as a drill only or combination drill with fertilizer attachment. (Cut shows drill with fertilizer.) The grain hopper holds about one-half bushel. The grain feed is a fluted roll with the cut-off bolted securely to feed rod, assuring accurate distribution, as all rolls must sow alike, and are controlled by lever which indicates on the gauge the amount sown. Will sow small beans and any kind of smaller seed grains. When furnished with drill, the fertilizer operates independent of the seed hopper and either one or both can be operated at one time as desired.

Hitch ring is set 3/4 in. out of center, thus avoiding any side draft. Handles have iron fenders on hand holds.

**288B1450—With grain hopper only. Shipping weight, 190 lbs. Price . . . . . \$20.00**

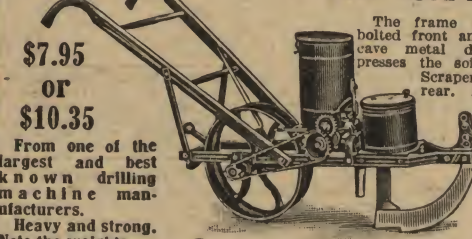
**288B1452—Complete with fertilizer. Shipping weight, 235 lbs. . . . . \$26.50**

**288B1454—Grass Seed attachment, Extra shipping weight, 20 lbs. 2.50**

Shipped from factory in Indiana.

# Climax Shoe Corn Drill, With or Without Fertilizer

Four Seed Plates



**\$7.95**  
OR  
**\$10.35**

From one of the  
largest and best  
known drilling  
machine man-  
ufacturers.  
Heavy and strong.  
Note the weights.

gear while in motion. Shoes made of polished steel. Handles of hardwood, steam bent. Adjustable hitch for deep or shallow planting. Illustration shows drill equipped with detachable fertilizer with disc feed. Is provided with cut-off to regulate quantity, and is driven by independent chain direct from axle. Can be thrown in and out of gear while drill is in motion. When ordered without fertilizer the large hopper and attachments are not furnished.

**288B1460—Plain, without fertilizer. Shipping weight, 110 lbs. Price . . . \$7.95**

**288B1462—Complete, with fertilizer. Shipping weight, 135 lbs. Price . . . \$10.35**

Shipped from factory in Indiana.

# Disc Furrow Openers \$375 Per Set



Intended to fit on the runner of any runner corn planter, to open up a wider and deeper furrow than the regular runner will make. Consists of two hardened steel disc blades, diameter, 11 in., that run on an axle fitted with an adjustable chilled box. The box is dustproof and carries an abundance of grease, is attached to runner by four steel set screws through a strong bracket that fits over runner. Especially desirable where dry weather is frequent, as the seed is placed deep where the soil is moist. A set consists of two complete attachments, one for each runner. Shipping weight, per set, 32 lbs. (Runner, Shoe and Seed Box shown in cut not furnished).  
**188B1472—Price, per set for two runners. . . . . \$3.75**

# Corn Planter Gauge \$1.65 Per Set

Shoes

More Corn per Acre  
Insures Bigger Crops  
Saves the Seed. Every man the Right Depth

A simple, all steel contrivance consisting of two runners with adjustable arches to attach to corn planter runners. Insures even depth, as it prevents the runners from going too deep into the ground. No matter how rough or irregular the field, the gauge insures uniform depth. Except when the soil is extremely wet, it will do satisfactory work in all kinds of soils and under all conditions. No danger of clogging with trash, as the construction of the runners is such as to throw off any rubbish it comes in contact with. The gauge is adjustable so that it can be raised or lowered for shallow or deep planting. Furnished in sets of two, one for each runner. Shipping weight, per set, 11 1/4 lbs.

**188B1466—Price, per set . . . . . \$1.65**

# Corn Planter Runner Repairs



Repair your worn  
out corn planter run-  
ners, at small cost,  
thus making them  
practically as good  
as new.

**\$1.40**

Showing repair at-  
tached to worn planter  
runner.  
Will fit any two-horse runner corn planter. Are easily attached by drilling three holes through the old runner. The wear on your runners is in one place and they therefore are usually the first parts of a corn planter to wear out. You cannot afford to discard your planter just on account of worn out runners. Get a pair of these. Make the runners as good as new, at a price away below any other method of making repairs. Made of extra hard, high carbon steel. Furnished with the rivets to attach. Shipping weight, per set, 11 1/4 lbs.

**88B1478—Price, per set for two runners, including rivets . . . . . \$1.40**



## New Eclipse Steel Rotary Drop Corn Planter 72c

**A Steady Favorite**  
A most accurate, uniform, and easily operated small hand Corn Planter. Made of Steel.

Extensively used. This planter has a rotary drop, similar to that used in a horse planter, thus securing regularity. It is considered one of the best hand corn planters made. It has four discs, No. 1 to drop one grain at a time; No. 2 to drop two grains at a time, etc. Simply and well made. Full set of directions with each planter. Shipping weight, 8 3/4 lbs.

**188B1500—Price . . . . . 72c**

## Triumph Corn Planter

**Reliable and Popular**  
**Thousands Sold Each Year**  
**An excellent Value at the Price**

This planter has the slide drop. Very simple in construction. Does not clog. All working parts of iron; blades, of steel. Considered by many to be equal to higher-priced planters. It has always given satisfaction. Shipping weight, 4 1/2 lbs.

**188B1504—Price . . . . . 60c**  
**188B1506—Price, with pumpkin seed attachment . . . . . 85c**

## No. 1 Planet Jr. Combined Drill Seeder, Wheel Hoe Cultivator and Plow

One of the most popular members of the Planet Jr. family. As a drill, the seed is sown with great regularity in a straight and narrow line, at a uniform depth and regulated at will by a thumb nut. From a drill it is changed to a cultivator, etc., by the removal of two bolts. Is adjustable to a double wheel hoe, single wheel hoe, furrower, wheel cultivator and wheel garden plow. Furnished with parts complete, including plow, 3 1/2 in. cut, one pair hoes with 6 in. blades, and three steel cultivator teeth. Hopper holds 3 pints. Shipping weight, boxed, 42 lbs.

**188B1510—Price, complete . . . . . \$9.00**

**No. 25 Planet Jr., Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and Plow**

One of the excellent all purpose tools of the Planet Jr. line. A combination of the Planet Jr. No. 4 Drill and the No. 12 Double Wheel Hoe. Regularly furnished with all parts shown in illustration. Will drill any thickness or drop in hills, 4, 6, 8, 12 or 24 in. apart. Seed hopper holds 2 1/2 quarts. Plow of seed may be stopped instantly by raising the handles; also by pushing down the index bar. Shipping weight, boxed, 64 lbs.

**188B1514—Price, complete . . . . . \$13.00**

**Climax Fertilizer and Lime Sower**  
**\$26.65**

Will broadcast lime, ashes, plaster, phosphates, nitrate of soda, and other commercial fertilizers. A new, improved machine, adjustable to broadcast from 300 to 3,000 lbs. lime per acre. Feed can be changed instantly while spreading. Has very light draft. Very strongly constructed. As a result, the work is rapidly and well done. All feed openings at the bottom of the box are at all times square, whether large or small feed is being used, thereby doing away with clogging trouble by small, hard particles that will stick in an oblong opening, but readily pass through a square hole.

The Climax Sower has a top that consists of a screen and hopper attached by hinges, and held closely by hooks. The screen insures against trouble from foreign substances entering the machine and mixing with lime or fertilizer. It sows evenly, has a light draft, and the quantity to be sown can be instantly changed without stopping, by simply changing the position of the feed lever at the rear and bottom of the hopper. Length of hopper, 7 ft. 7 inches.

Axle—1 1/4 in. diameter. Cold rolled steel and high carbon steel used exclusively. Wheels are of steel, diameter, 30 in. Stronger and more lasting than wood. Concave tires. Width, 4 inches.

Patented Agitator is constructed by steel tubing and steel bars, formed and bolted together. Bars bolted around and not through the tubing. Furnished complete with tongue for two horses. (Extra charge for doubletrees and neckyoke.) Shipping weight, about 405 lbs.

**288B1560—Without Doubletrees and Neckyoke. Price . . . . . \$26.65**  
**288B1562—Doubletrees, singletrees, and Neckyoke for above. Ship. wt., 18 lbs. . . . . \$2.35**

Shipped from factory in Ohio.

**Climax 7 or 9 Knife Stalk Cutters**

For Cutting Corn and Cotton Stalks to Prepare for Plowing

Tool Steel Blades Will Cut Deep. 7 or 9 Knives.

One of the Strongest, simplest and most satisfactory stalk cutters made.

Our Climax Stalk Cutter is built for cutting up corn stalks or any kind of stalks that it is desirable to chop up for fertilizing purposes. Cylinder head has adjustable chilled boxes. Diameter of wheels, 42 in.; width of tires, 2 in. Large, adjustable boxes which can readily be replaced if required. Controlling lever is long and gives considerable power, so that it is possible to readily throw the weight of the frame and the driver on the knives to make the blows more forceful. Blades or knives are of high carbon tempered steel, length 26 in.; width, 3 1/2 in. The 7-knife cutter will cut stalks 13 in. long. The 9-knife cutter will cut stalks 10 in. long. Constructed of steel and malleable iron, and has great strength. The main arch is heavy, strong and substantial. It will not spring, break or bend in use. The forks for bringing the stalks in line for the knives can be regulated as desired. Independent of the cylinder. Doubletrees or neckyoke not furnished. Average shipping weight, 395 lbs.

**288B1566—7-knife cutter. Price . . . \$19.45**  
**288B1568—9-knife cutter. Price . . . 20.25**

Shipped from factory in Indiana.

**Climax 8 or 10 Hoe Wheat Drills**

FRAME is made of heavy steel tubing. 42 in. Steel wheels of heavy pattern, with 2 1/4 in. tires. 1 5/16 in. axle, is cold-rolled solid steel. Pin-Break Hoes with spring pressure and suction points. The hoes go into the ground easily and clean themselves readily of trash. Feeding Device is an excellent arrangement, one side of the feeding cup being supplied with a journal or bearing on which the feed cup rotates and slides, giving an even flow of grain. Quantity of seed sown is regulated by lever on the back of the hopper. Spot connection to which the rubber tube is fastened extends well around the mouth of the feed, preventing the wind from interfering with the sowing. Directions included. No doubletrees or neck yokes.

We cannot furnish fertilizer attachment with this drill.

**288B1572—Price, 8-hoe, plants 5 1/2 ft. Shipping weight, 500 lbs. . . \$28.50**  
**288B1574—Price, 10-hoe, plants 7 ft. Shipping weight, 550 lbs. . . \$3.00**  
**288B1576—Extra for detachable grass seed attachment (shipping weight, 50 lbs.) . . . . . \$3.00**

Shipped from factory in Indiana.

**Climax Hand Seeder 85c**

We offer our Climax in competition with any other hand seeder that retails up to \$1.50. It will distribute uniformly and operate easily. The distributor wheel is unusually large, throwing the seed very far to the round. Has double feed opening, which causes an even amount of seed to be dropped on both sides of the distributor wheel, at the same time insuring far more uniform distribution than when fed from one opening on one side. A stirring wire insures the seed being fed evenly. The gearing is especially true and close fitting. The bag holds about one-half bushel of grain, 35 to 50 ft. to the round. Light running. Shipping weight, 3 1/2 lbs.

**88B1543—Climax Hand Seeder. Price . . . 85c**

**Climax 5-Hoe Wheat Drill**

Has excellent force feed, insuring even, steady flow of grain; lever to adjust from 34 to 4 in. width in operation. Rear lift readily adjusts to proper depth; fenders on handles protect operator from rubbing corn stalks. Convenient lever throws machine in or out of gear. Illustration shows the drill with regular wood grain hopper; but when so desired can be furnished with additional front, 6 in. rear wheels, iron.

**288B1580—With grain hopper only, as shown above. Shipping weight, 160 lbs. Price . . . . . \$11.00**  
**288B1582—With extra fertilizer hopper; shipping weight, 200 lbs. Price . . \$17.15**  
**288B1584—Equipment to sow long bearded, red rust-proof oats in addition to wheat; extra wt., 6 lbs. . . . . \$1.35**  
**288B1586—Grass seed attachment, extra (shipping weight, 20 lbs.) . . . 2.50**

Shipped from factory in Indiana.

# Seeders and Planters

## Superior Force Feed End Gate Seeder

To use on end of ordinary Farm Wagon Box

Has a corrugated roller force feed device driven by sprocket wheels and chain belting, insuring an even flow of seed.

**\$8.35**

Even distribution and uniform feed. The amount of seed can be gauged exactly and the flow will be uniform. The feed roller does not grind or crush the grain. The seeder can be thrown in or out of gear and the feed roller stops with the seeder. Two feed gauges regulate the amount of seed and swing on pivots at either side of the feed opening. They work independently, so the machine can be set to increase or decrease the cast on either side. This is a special advantage in wind. It sows the same amount per acre whether the horses walk fast or slow.

Furnished with end board to take the place of end gate; large sprocket wheel to attach to wagon wheel and all chains necessary to operate. Shipping weight, 110 lbs.

**288B1516—Price . . . . . \$8.35**  
**288B1518—Grass Seed Attachment fitted to seeder. Shipping weight, 20 lbs. extra . . . 1.25**

Shipped from Warehouse near Chicago.

**Force Feed Hill and Drill Seeder**

The right number of seeds in the right place. An easy and accurate worker that insures good crops.

A special favorite with onion growers. A Time and Money Saver on Garden or Truck Farms. Reversible Press Wheel for Ridge or Furrow.

**\$5.65**

Any size seeds from Celery to Corn

A series of changeable seed cylinders with reamed holes to insure accurate, uniform drop.

Made of malleable iron and steel. Diameter of wheel, 16 inches. The push is directly on the wheel and the wheel pulls the machine. It runs easily and guides perfectly. A series of 8 seeding discs are furnished with reamed cups or cavities of different sizes to accommodate different size seeds. It will plant in hills and do perfect work with the various kinds and sizes of seeds from celery to corn. It will plant in hills from 4 to 28 inches apart in the exact quantity wanted. When changing from hill to drill there is nothing to put on or take off. The change is made in one minute. It is particularly adapted for drilling onions or beets. Furnished complete, with markers and wrench and shipped set up, crated, ready for use. Shipping weight crated, 58 lbs. Net weight, 45 lbs. Complete directions for operating with each machine.

**188B1526—Price . . . . . \$5.65**

## Superior End Gate Seeder \$5.65

A Wooden Platform Agitator Feed

Our Improved End Gate Seeder is of the cog-wheel stirring type. Has a reliable seed indicator by which it can be set to sow any quantity of grain desired. Is fitted with spring clutch to avoid jarring. Can sow any desired quantity full cast or half cast, right or left, and is not affected by any ordinary winds.

Will sow all kinds of grain, dry fertilizer, lime, salt, etc. The lever for throwing in and out of gear is on a clutch near the main gear wheel within easy reach. The cut-off and regulating valve are both in one, avoiding the possibility of getting out of order. With the team traveling at the rate of 2 1/2 miles per hour, under ordinary conditions, this seeder will cast wheat from 40 to 44 feet; oats from 32 to 36 feet; barley 35 to 40 feet, and will sow 100 acres per day. Shipping weight, 95 lbs. Sprocket to attach to wagon wheel and all necessary chain regularly furnished.

**288B1522—Superior End Gate Seeder. Price . . . . . \$5.65**

Shipped from Warehouse near Chicago.

**Body Weight Garden Tool**

Reversible Press Wheel for Ridge or Furrow. Double Wheel Hill and Drill Seeder and Single and Double Wheel Hoe, Cultivator, Plow and Rake. No strain on the arms. Body does the work.

**\$9.10**

AS A SEEDER, will drop in hills 4 in. to 24 in. apart, or in continuous drilling, all kinds of seed from celery to corn. A series of changeable seed cylinders with reamed cups or cavities to insure accurate, uniform drop. Lever Cut-off stops feed wheel instantly.

The Covering Wheel is a combination reversible wheel forming either ridge or furrow.

As a Cultivator the drill parts are entirely removed and a tool frame substituted. The cultivating attachments are smooth and polished steel.

Plows are for breaking, furrowing, filling or ridging. Rakes for first cultivation, leveling and weeding. Cultivator Gangs for breaking crust, fining, tearing up hard soil and for deep cultivation. Hoes for cleaning out between rows.

The drive wheels are steel. Diameter, 16 inch; tires, 1 1/2 inch, and forged steel spokes. The breast yoke or weight bar relieves the strain on the arms and compels the weight of the body to assist in doing the work. Adjustable handles. Always shipped set up ready for use. Printed directions with each tool. Net weight, 70 lbs. Shipping weight, crated, 100 lbs.

**288B1536—Price at factory in Ohio . . . \$9.10**  
**188B1532—Price at our store . . . . . 8.45**

Shipped either from our store or factory in Ohio.

**Lightning Wheelbarrow Grass Seeder** Especially Adapted For Alfalfa

A most economical and satisfactory grass seeder for limited work.

Thousands in satisfactory use. Has been thoroughly tried and tested in sowing clover, timothy, alfalfa, Hungarian millet, flax or crimson clover, with satisfactory results. Seed can be sown mixed or separate; any amount required per acre. The wheel is all steel, with broad tire. It is an invaluable implement for seeding when wind blows, because the wooden seed box is so close to the ground that the wind cannot affect the work. Rope agitator regularly furnished; wire agitator, if so ordered. Full directions with each machine.

**288B1556—Double Hopper, to sow orchard grass and red top, extra . . . . . \$1.20**

Shipped from our store or from factory in Michigan.

**288B1550—Price, 12 ft. 42 lbs.; 14 ft. 46 lbs.; 16 ft., 50 lbs. . . . . \$4.90**  
**188B1552—Price, 12 ft. At our store . . . \$4.90**  
**188B1552—Price, 14 ft. At our store . . . \$4.90**  
**288B1554—Price, 16 ft. At Michigan factory 5.20**

**Climax 7 or 9 Knife Stalk Cutters**

For Cutting Corn and Cotton Stalks to Prepare for Plowing

Tool Steel Blades Will Cut Deep. 7 or 9 Knives.

One of the Strongest, simplest and most satisfactory stalk cutters made.

Our Climax Stalk Cutter is built for cutting up corn stalks or any kind of stalks that it is desirable to chop up for fertilizing purposes. Cylinder head has adjustable chilled boxes. Diameter of wheels, 42 in.; width of tires, 2 in. Large, adjustable boxes which can readily be replaced if required. Controlling lever is long and gives considerable power, so that it is possible to readily throw the weight of the frame and the driver on the knives to make the blows more forceful. Blades or knives are of high carbon tempered steel, length 26 in.; width, 3 1/2 in. The 7-knife cutter will cut stalks 13 in. long. The 9-knife cutter will cut stalks 10 in. long. Constructed of steel and malleable iron, and has great strength. The main arch is heavy, strong and substantial. It will not spring, break or bend in use. The forks for bringing the stalks in line for the knives can be regulated as desired. Independent of the cylinder. Doubletrees or neckyoke not furnished. Average shipping weight, 395 lbs.

**288B1566—7-knife cutter. Price . . . \$19.45**  
**288B1568—9-knife cutter. Price . . . 20.25**

Shipped from factory in Indiana.

**Climax 8 or 10 Hoe Wheat Drills**

FRAME is made of heavy steel tubing. 42 in. Steel wheels of heavy pattern, with 2 1/4 in. tires. 1 5/16 in. axle, is cold-rolled solid steel. Pin-Break Hoes with spring pressure and suction points. The hoes go into the ground easily and clean themselves readily of trash. Feeding Device is an excellent arrangement, one side of the feeding cup being supplied with a journal or bearing on which the feed cup rotates and slides, giving an even flow of grain. Quantity of seed sown is regulated by lever on the back of the hopper. Spot connection to which the rubber tube is fastened extends well around the mouth of the feed, preventing the wind from interfering with the sowing. Directions included. No doubletrees or neck yokes.

We cannot furnish fertilizer attachment with this drill.

**288B1572—Price, 8-hoe, plants 5 1/2 ft. Shipping weight, 500 lbs. . . \$28.50**  
**288B1574—Price, 10-hoe, plants 7 ft. Shipping weight, 550 lbs. . . \$3.00**  
**288B1576—Extra for detachable grass seed attachment (shipping weight, 50 lbs.) . . . . . \$3.00**

Shipped from factory in Indiana.

**Climax 5-Hoe Wheat Drill**

Has excellent force feed, insuring even, steady flow of grain; lever to adjust from 34 to 4 in. width in operation. Rear lift readily adjusts to proper depth; fenders on handles protect operator from rubbing corn stalks. Convenient lever throws machine in or out of gear. Illustration shows the drill with regular wood grain hopper; but when so desired can be furnished with additional front, 6 in. rear wheels, iron.

**288B1580—With grain hopper only, as shown above. Shipping weight, 160 lbs. Price . . . . . \$11.00**  
**288B1582—With extra fertilizer hopper; shipping weight, 200 lbs. Price . . \$17.15**  
**288B1584—Equipment to sow long bearded, red rust-proof oats in addition to wheat; extra wt., 6 lbs. . . . . \$1.35**  
**288B1586—Grass seed attachment, extra (shipping weight, 20 lbs.) . . . 2.50**

Shipped from factory in Indiana.

# Seeders and Planters

## Superior Force Feed End Gate Seeder

To use on end of ordinary Farm Wagon Box

Has a corrugated roller force feed device driven by sprocket wheels and chain belting, insuring an even flow of seed.

**\$8.35**

Even distribution and uniform feed. The amount of seed can be gauged exactly and the flow will be uniform. The feed roller does not grind or crush the grain. The seeder can be thrown in or out of gear and the feed roller stops with the seeder. Two feed gauges regulate the amount of seed and swing on pivots at either side of the feed opening. They work independently, so the machine can be set to increase or decrease the cast on either side. This is a special advantage in wind. It sows the same amount per acre whether the horses walk fast or slow.

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Will sow all kinds of grain, dry fertilizer, lime, salt, etc. The lever for throwing in and out of gear is on a clutch near the main gear wheel within easy reach. The cut-off and regulating valve are both in one, avoiding the possibility of getting out of order. With the team traveling at the rate of 2 1/2 miles per hour, under ordinary conditions, this seeder will cast wheat from 40 to 44 feet; oats from 32 to 36 feet; barley 35 to 40 feet, and will sow 100 acres per day. Shipping weight, 95 lbs. Sprocket to attach to wagon wheel and all necessary chain regularly furnished.

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Tool Steel Blades Will Cut Deep. 7 or 9 Knives.

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We cannot furnish fertilizer attachment with this drill.

**288B1572—Price, 8-hoe, plants 5 1/2 ft. Shipping weight, 500 lbs. . . \$28.50**  
**288B1574—Price, 10-hoe, plants 7 ft. Shipping weight, 550 lbs. . . \$3.00**  
**288B1576—Extra for detachable grass seed attachment (shipping weight, 50 lbs.) . . . . . \$3.00**

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**288B1580—With grain hopper only, as shown above. Shipping weight, 160 lbs. Price . . . . . \$11.00**  
**288B1582—With extra fertilizer hopper; shipping weight, 200 lbs. Price . . \$17.15**  
**288B1584—Equipment to sow long bearded, red rust-proof oats in addition to wheat; extra wt., 6 lbs. . . . . \$1.35**  
**288B1586—Grass seed attachment, extra (shipping weight, 20 lbs.) . . . 2.50**

Shipped from factory in Indiana.

# Climax Plant Setter

Of especial value to the florist, nurseryman or truck farmer. Will do the work far better than by hand, in one-half the time, and with less than one-half the labor. Adapted for setting out or transplanting strawberries, tomato plants, cabbage, sweet potatoes, tobacco plant, shrubs, flowering plants, bulbs, etc. Can be operated by one or two hands. All metal parts are of hardened steel and handle of oak. Nothing to break or wear out easily. Will generally save its cost in one day's work. Shipping weight, packed, 4 lbs.

**188B1536—Price . . . \$1.45**

## Masters Rapid Plant Setter \$3.75

Will set, water and cover plants in one operation. Big time saver in setting out cabbage, tomato, tobacco and other plants. Has a capacity of 12,000 plants a day. The conical jaws are made of heavy sheet steel and water reservoir and plant tube are of tinned plate; the water valve and plug are brass with rubber packing. It has been thoroughly tested, and sets cabbage, tomatoes, sweet potatoes, and all similar plants. It does better work than can be done by hand and several times as fast. The roots are deposited below the surface where the ground is cool and damp. The plants are set, watered and covered at one operation. Printed directions with every planter. Shipping weight, about 5 lbs.

**188B1540—Price . . . \$3.75**

**Saves Time and Labor**

## Climax Hand Seeder 85c

We offer our Climax in competition with any other hand seeder that retails up to \$1.50. It will distribute uniformly and operate easily. The distributor wheel is unusually large, throwing the seed very far to the round. Has double feed opening, which causes an even amount of seed to be dropped on both sides of the distributor wheel, at the same time insuring far more uniform distribution than when fed from one opening on one side. A stirring wire insures the seed being fed evenly. The gearing is especially true and close fitting. The bag holds about one-half bushel of grain, 35 to 50 ft. to the round. Light running. Shipping weight, 3 1/2 lbs.

**88B1543—Climax Hand Seeder. Price . . . 85c**

## Cahoon Seeder \$2.98

The one so much advertised. A first-class Crank Seeder

Will give long and satisfactory service.

Improved Seeder for sowing wheat, barley, oats, buckwheat, hemp, rice, grass seed, etc. Sows from 4 to 8 acres per hour at a common walking gait, throwing out wide, about 40 ft. Back and base is sheet steel; distributor brass, cast gearing, strong and durable. No parts to get out of order easily. Shipping weight, 8 1/2 lbs.

**188B1546—Price . . . . . \$2.98**

**8-Hoe \$28.50**

Perfect in operation, accurate feed regulation, rubber tubes, metal Pin-Break Hoes with Steel points.

Made by one of the largest Seeding Machine Manufacturers in America.

**288B1572—Price, 8-hoe, plants 5 1/2 ft. Shipping weight, 500 lbs. . . \$28.50**  
**288B1574—Price, 10-hoe, plants 7 ft. Shipping weight, 550 lbs. . . \$3.00**  
**288B1576—Extra for detachable grass seed attachment (shipping weight, 50 lbs.) . . . . . \$3.00**

Shipped from factory in Indiana.

**Clipper 5-Hoe Wheat Drill**

Has excellent force feed, insuring even, steady flow of grain; lever to adjust from 34 to 4 in. width in operation. Rear lift readily adjusts to proper depth; fenders on handles protect operator from rubbing corn stalks. Convenient lever throws machine in or out of gear. Illustration shows the drill with regular wood grain hopper; but when so desired can be furnished with additional front, 6 in. rear wheels, iron.

**288B1580—With grain hopper only, as shown above. Shipping weight, 160 lbs. Price . . . . . \$11.00**  
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**288B1584—Equipment to sow long bearded, red rust-proof oats in addition to wheat; extra wt., 6 lbs. . . . . \$1.35**  
**288B1586—Grass seed attachment, extra (shipping weight, 20 lbs.) . . . 2.50**

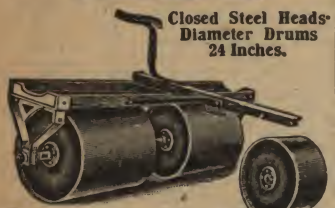
Shipped from factory in Indiana.



# Land Rollers—Road Machinery—Scrapers—Draggs

## Climax Corn Roller

Heavy Steel End Hangers with One-Piece Oil-Soaked Maple Boxes.



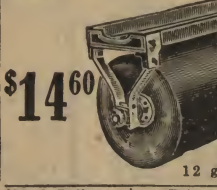
A comparatively new and practical combination tool that is fast becoming popular in all corn sections. Can be used as a regular land roller, length, 7 ft., or by removing the small section, will readily straddle a row of corn with 36 in. of rolling surface between each of the corn rows. The drums can be spread apart any desired width up to 12 in. A 3-section roller has two sections three feet wide, and one section one foot wide. It is customary to use the small section on one end, so that to transfer it for corn, it can readily be removed and the large sections spread apart. Special collars to hold drums apart for corn rowing regularly furnished. Heavy angle steel frame. Weight boxes easily made by using planks. Tongue made of oak and strongly braced with hitch pin underneath. Made in one size only.

288B1600—Steel Head Corn Roller, 7 ft. 3 section. Ship. wt., 540 lbs. Price ..... \$18.50

Shipped from factory in Ohio.

## Champion Land Rollers

From one of the largest and best known manufacturers of Standard Land Rollers.



Our No. 1 Steel Head Rollers are exceptionally strong and practically unbreakable. Hangers are of heavy steel, stiff and rigid. Boxes and hangers are one-piece, oil-soaked and easy to renew. Diameter of drums, 24 in.; 12 gauge rims; 1 1/4 in. steel axle.

No. 2 Cast open head Rollers are full weight, with heads made of rigid cast iron. Heavy cast iron hangers equipped with self-collaring boxes. 1 1/4 in. steel axle.

Oak tongues on both rollers made of oak with hitch pins underneath and heavily ironed to frames. No double-trees or neck yoke furnished.

Prices on No. 2 Cast Head Rollers.

No. 2 Rollers	Prices	Rolls	Sections	Ship. Wts.
288B1614	\$14.90	6 ft.	2	500 lbs.
288B1616	16.75	7 ft.	3	550 lbs.
288B1618	17.75	8 ft.	3	600 lbs.
288B1620	18.90	8 ft.	3	650 lbs.
288B1622	20.40	8 ft.	4	675 lbs.

Shipped from factory in Ohio.



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## Climax Disc Pulverizer and Packer

18-in. Deep V Discs. Oil-Soaked Maple Boxes 4x4x5 in. Heavy Angle Steel Frame, 1 1/4 in. Steel Axle. 6 to 12 Foot Sizes.

The value of the surface packer is appreciated by the Western farmers, and is fast becoming popular in Eastern and Central States. Our Climax is the kind commonly used. It is full weight, standard in shape and design. The sharp, deep V discs are made of cast iron, diameter, 18 inches, and turn independently on heavy 1 1/4 in. high carbon steel axle. Hangers are equipped with oil soaked maple bearings. Heavy angles used in frame construction form a weight box, by which any kind of weights may be used by laying a plank inside. Tongue is made of oak with extra heavy braces. Made in six sizes. Can also furnish with shallow V discs at same prices, if so specified in order.

Art. No.	Price	Length	No. of discs	Ship. Weight
288B1630	\$21.25	6 ft.	18	755 lbs.
288B1632	23.95	7 ft.	24	880 lbs.
288B1634	26.50	8 ft.	24	900 lbs.
288B1636	29.90	9 ft.	27	1100 lbs.
288B1638	33.90	10 ft.	30	1210 lbs.
288B1640	39.75	12 ft.	36	1450 lbs.

Shipped from factory in Ohio.

## Tandem Disc Pulverizers

Now for 1916. The latest idea in soil preparation. Have all the good features of the single gang style, but also roll and pack the surface with the rear gang.

Construction the same as the single gang style above but have 12 inch diameter front discs and 12 inch rear discs. Rear Gang is easily detachable, allowing use of front gang as a pulverizer only. Made in 7 and 8 foot sizes only.

288B1624—7 ft. Cut. Ship. wt., 1,000 lbs. .... \$33.75

288B1626—8 ft. Cut. Ship. wt., 1,100 lbs. .... \$35.90

Shipped from factory in Ohio.

## Climax Soil Pulverizer

Straight Teeth. 24 inch Wheels. Removable Self-Oiling Boxes. 8 to 22 Sections.



One of the most effective and popular Combination Roller and Soil Pulverizers. Besides crushing the lumps it leaves practically a smooth surface. Wheels are made of heavy cast iron, diameter, 24 in., and each wheel turns independently. Has special hitch in center, making the draft directly on the axle, also forming the center bearing and preventing axle springing. Seat adjustable to take weight from horses' necks. Frame of heavy 2 1/2 x 2 1/2 in. steel angles, forming weight boxes. Oak tongue heavily ironed. Center pins through axle at end hangers to prevent springing.

Article No.	Price	Length ft.	No. of Sections	Ship. Wt. lbs.
288B1650	\$21.00	6	8	755
288B1652	23.25	7	10	900
288B1654	26.75	8	12	1040
288B1656	30.00	9	14	1215
288B1660	49.75	15	22	1900

Shipped from factory in Ohio.

## Climax Soil Preparer

Prepares the soil for retaining moisture. Insures quick germination, prevents blowing of seed, washing, rust and smut.

The Climax Soil Preparer will give you larger crops, make you more money, and can be made to pay for itself several times in one season, by saving seed from blowing; holding moisture; insuring quick germination of seed; saving delays in cultivating after rains; increasing your yield; giving your crops the full benefit of rainfall, and assisting you to obtain the full benefit of your season's efforts.

Frame is constructed of angle steel. All bolts provided with lock washers for preventing nuts from becoming loose. Steel shaft, diameter 1 1/4 inches. Packer wheels and Mulcher wheels of cast iron, diameter 17 inches; width, 3 inches. The Mulcher wheels work loosely between the packer wheels, and, due to the large number of spurs, some of which are always in contact with ground, causes the Mulchers to travel at a higher rate of speed, thus preventing dirt from packing between wheels.

No. 10 doubletrees, singletrees, or neck-yoke furnished. Tongue is furnished.

288B1670—Soil Preparer, length 7 feet; shipping weight, 1,000 lbs. Price ..... \$28.00

288B1672—Soil Preparer, length 8 feet; shipping weight, 1,100 lbs. Price ..... \$29.90

Shipped from factory in Western Illinois.

The kind so largely used in the West. Will do any kind of work usually done by drag and wheel scrapers. Unsurpassed for making irrigation ditches, leveling land, building levees.

BUILT TO WEAR and stand the hardest kind of usage. High carbon steel body, wrought iron rods and fittings, hardwood drawbar, crossbrace and handle. We believe it equal to any similar scraper made, regardless of price. It has greater carrying capacity than other scrapers of this style, and its great strength and durability make it one of the handiest and most economical machines in the scraper line for the farmer or contractor. The load can be carried any distance and deposited in bulk or distributed evenly as desired. Runners can be adjusted to any angle required by the nature of the soil.

Art. No. Price Size No. Width Capacity Shoes No. Horses Required Ship. Weight

288B1714	\$12.35	6	44 in.	10 cu. ft.	3	3	250 lbs.
288B1716	13.75	7	48 in.	12 cu. ft.	3	3	260 lbs.
288B1718	14.95	8	60 in.	17 cu. ft.	3	4	310 lbs.

Shipped from factory in Ohio.

HAS ANTI-SKIDDING DISC that can be forced into the ground by means of lever to prevent the machine from skidding towards the ditch when doing heavy work.

A One Man, Two Horse Grader. Built Entirely of Steel and Iron

6 Foot Cutting Blade

288B1740—Climax Reversible Road Grader complete. Shipping weight, 600 lbs. Price ..... \$32.00

288B1742—Extra Cutting Blade. Shipping weight, 40 lbs. Price ..... \$3.00

Shipped from Factory in Ohio.

Steel Clad Stone Boats, \$4.10 to \$5.25

For moving implements, etc., without loading on a wagon.

The bent front part is made of No. 11 sheet steel, and the bottoms of hardwood, thickness 2 inches. The side rails and cross pieces are made of 2-inch hardwood and firmly bolted to the bottoms. Length of front steel plate, 16 inches, being bolted to the bottom.

Size Wt. Price

288B1760—No. 1.	28 in. x 6 ft.	125	\$4.10
288B1762—No. 2.	30 in. x 7 ft.	150	4.55
288B1764—No. 3.	34 in. x 7 ft.	175	5.25

Shipped from Factory in Michigan.

## Climax Flat Board Scraper

Especially adapted to cut or fill ditches for sewer work and leveling. 48 IN. BLADE—EXTRA WELL IRONED Improved for 1916

The wood used in its construction is seasoned oak, and handles have steam-bent holds, the same as are used on plows. The bit or cutting blade is of high carbon steel; width, 48 in.; depth, 6 1/2 in., and thickness, No. 7 gauge. The draw bars are made of steel; width, 1 1/4 in. Heavy steel straps on the top and bottom under and above the plow handles, with bolts fastening entirely through the scraper handles and straps, makes the construction extremely rigid. We do not know of a better scraper of the kind at any price. Shipping weight, 85 lbs.

288B1680—Price ..... \$4.65

Shipped from factory in Ohio.

## Climax Tongue Scraper

For Making and Leveling Roads, Cutting or Cleaning Ditches, etc.

The heavy, No. 7 gauge steel blade used for cutting edge is of extra hard steel; width, 4 1/2 in. The draw bars are made of steel, and shoes of malleable iron. The wood work is of well seasoned hardwood, securely banded and bolted; has hardwood tongue and cross beam, combination draw pin and wrench. Made in three sizes: 36 in., 42 in. and 48 in.

288B1684—Width 36 in. Shipping weight, 120 lbs. .... \$4.65

288B1686—Width 42 in. Shipping weight, 125 lbs. .... 4.85

288B1688—Width 48 in. Shipping weight, 130 lbs. .... 5.10

Shipped from factory in Ohio.

## Climax Buck Scraper

Steel Shoes On Runners

Fresno Style—3 Sizes

Art. No. Price Size No. Width Capacity Shoes No. Horses Required Ship. Weight

288B1714	\$12.35	6	44 in.	10 cu. ft.	3	3	250 lbs.
288B1716	13.75	7	48 in.	12 cu. ft.	3	3	260 lbs.
288B1718	14.95	8	60 in.	17 cu. ft.	3	4	310 lbs.

Shipped from factory in Ohio.

## Climax Reversible Road Grader

FOR LIGHT GRADING in new work, or in maintaining roads, the Climax Reversible Road Grader is preferable to the big, expensive machines that cost from two to three hundred dollars. It is also less expensive to operate, as two horses will handle it.

Weight of machine, 600 lbs., and is made entirely of steel and iron. Width of front truck, 17 in. Diameter of wheels on front truck, 16 in. Main frame is made of 6-in. channel iron. Mouldboard made of steel, thickness 3/4 in.; width, 10 in.; length, 8 ft. Cutting blade is of tempered steel, thickness, 3/4 in.; width, 6 in.; length, 6 ft. The rear wheels that carry the weight are exceptionally strong, with wide tires, diameter, 12 in. The hitch or main beam is angle steel and can be adjusted high or low.

THE FRONT TRUCK has a castor or pivot action and the wheels will turn under the frame, making it possible to turn the machine in the space it occupies.

IT IS REVERSIBLE so that the earth can be thrown to the right or left. The reversing process is done by the team after the operator releases the pin that attaches the main draw bar to the front truck frame. The loosening is accomplished by a foot trip to the right or left.

CUTTING BLADE can be adjusted for deep or shallow work, as desired, by the use of the levers convenient to the operator.

Price Includes Steel Doubletrees

288B1740—Climax Reversible Road Grader complete. Shipping weight, 600 lbs. Price ..... \$32.00

288B1742—Extra Cutting Blade. Shipping weight, 40 lbs. Price ..... \$3.00

Shipped from Factory in Ohio.

## Climax Steel Drag Scrapers

With Bottom Plate 40-Point High Carbon No. 11 Gauge Steel in Bowls

Equal to Some Scrapers that Sell at Retail at Double Our Prices

CLIMAX SCRAPERS give long and satisfactory service. The unusually low prices we ask for them do not necessarily indicate cheapness, but are the result of our sales reaching many thousands each year. By manufacturing in large quantities, the cost of production is reduced to the lowest possible point.

THE BOWL is made of No. 11-gauge high carbon steel in Size 10 and No. 10 gauge steel in Sizes No. 11 and 12. Has round back and curved bottom, therefore considerably less friction than the flat bottom scrapers. There are no bolts, nuts or clamps to encumber it. The balls on the Nos. 10 and 11 sizes are 1 1/2 x 1/2 in. steel, and on the No. 12, 1 1/2 x 1/2 in. steel; swivel link on each ball. Handle sockets are steel plates solidly riveted and never need renewing.

IN CLIMAX scrapers the bottom may be had three ways; without reinforcement, or with runners, or with bottom plate. When furnished with runners, scraper is fitted with two 1 1/2 x 1/2 in. inch runners, attached to the bottom with countersunk rivets. The bottom plate scrapers have large steel flat plates securely riveted and will give long and satisfactory wear.

Article No.	Prices Plain	With Runners	With bot. plate	Size No.	Cubic feet	Shpg. Wt. with Runners
288B1694	\$3.50	\$3.70	\$3.95	10	3	72 lbs.
288B1696	3.60	3.80	4.15	11	5	90 lbs.
288B1698	3.90	4.20	4.40	12	7	100 lbs.

Shipped from factory in Ohio.

NOTE—We carry three sizes, with runners only, on hand at Chicago, at the following prices:

288B1700—Size No. 10—3 cubic feet, with runners. Price at Chicago ..... \$3.90

288B1702—Size No. 11—5 cubic feet, with runners. Price at Chicago ..... 4.05

288B1704—Size No. 12—7 cubic feet, with runners. Price at Chicago ..... 4.40

## Wheeled Scrapers

All Parts Made Heavy and Strong

From one of the pioneer road machinery manufacturers, with a reputation for quality. Wood hub or Sarven wheels. Will stand practically any strain. Bowls are made in one piece of high carbon steel, sides overlapping back, to which they are solidly riveted, making the strongest and stiffest kind of bowl.

Axles are fitted with adjustable malleable iron shields or sand bands fitting closely against the hubs, preventing sand and dirt getting in the spindle. The levers, braces, rods, chains, etc., are all made exceptionally heavy to stand the hardest kind of usage. A special feature of our Climax Scrapers is that they have no peculiarly shaped iron or castings that disable the machine until repairs can be procured from the factory. No parts of our Climax Scrapers that cannot be repaired in a country blacksmith shop. Furnished regularly in four sizes, either size furnished with wood hub or Sarven wheels. Snatch Rods furnished on sizes 2 1/2 and 3 without extra charge.

Art. No.	Prices Wood Hub	Sarven Wheels	Size No.	Capacity	Gauge Steel in Bowl	Diam.	Wheels Size Tires	Shipping Weight
288B1722	\$25.00	\$26.75	1	10 cu. ft.	No. 8	36 in.	3 1/2 in.	490 lbs.
288B1724	30.90	33.00	2	12 cu. ft.	No. 8	40 in.	3 1/2 in.	620 lbs.
288B1726	33.75	35.50	2 1/2	14 cu. ft.	No. 8	43 in.	3 1/2 in.	700 lbs.
288B1728	36.50	38.00	3	17 cu. ft.	No. 7	46 in.	3 1/2 in.	775 lbs.

288B1730—Apron or retaining gate for front of bowl of numbers 2, 2 1/2 and 3 Scrapers. Extra ..... \$4.50

Shipped from Factory in Ohio.

## 7 and 8 foot sizes, Adjustable or Stationary

One of the handiest tools about the farm for leveling purposes, for road, ditch, plow use, etc.

By adjustment of hitch on ball it can be pulled at any angle desired. High carbon hardened steel blades are readily adjustable to any desired angle by means of lever. Frame is flexible, allowing each blade to work independently. Frame is made of heavy angle steel. Blades are detachable and can be replaced when needed.

288B1746—Climax 7 ft. Adjustable and Reversible Drag with 6 in. cutting blade. Shipping weight, 265 lbs. Price ..... \$10.50

288B1748—Climax 8 ft. Adjustable and Reversible Drag with 6 in. cutting blade. Shipping weight, 315 lbs. Price ..... \$11.50

288B1750—Climax 7 ft. Stationary Drag without lever, not adjustable, 5 in. cutting blade. Shipping weight, 165 lbs. Price ..... \$ 8.25

288B1752—All steel doubletrees for either drag. Per set ..... 1.75

Shipped from Factory in Ohio.

## Stone Boat Head \$1.95

TO MAKE YOUR OWN STONE BOAT

To construct stone boat any straight plank can be used. Take three 10-in. boards and fasten with 1/2 in. bolts to the front. The front has a shoulder for fitting the ends of the boards against. Holes are drilled to receive the bolts for bottom boards and side strips.

188B1770—Price ..... \$1.95

Shipped from Factory in Ohio.

## Who We Are

Our store is built on the best steel and concrete foundation engineers could design. It is built to stay. Our business is built on the best foundation the founders could give. Our business is built to stay. Honest, fair dealing, good work of it. It also is built to stay. are the foundation materials of values and real service to the customer same policy carried out now and in the future will make us as many friends as it has in the past. The prices in this book are examples of the good values we offer.

Thousands of mile per year—our sales of Ajax Fencing.



# New Climax Potato Machinery

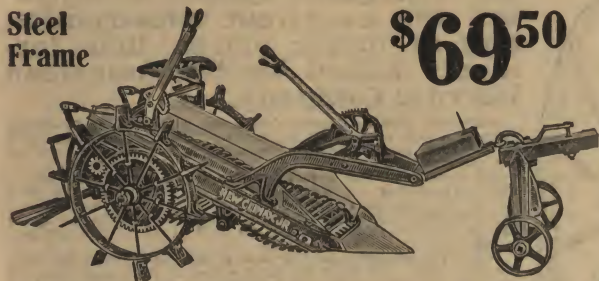
Diggers, Planters, Sorters, Cutters

## Climax Junior Digger

20-inch Elevator, Steel Construction, Adjustable Shaker Screen

Steel Frame

\$69.50



The Climax Jr. can be handled by two horses and is intended to meet the demand of small farms. It does the work equally well as larger diggers, but is built higher and not intended to stand the strain of four horses.

Main frame has channel steel sides which make it far superior to the cast frame diggers, being easier to handle, stronger and more durable.

The elevator chain is made of 1/4-in. crucible spring steel, each length being round and zigzagged, and each alternate being high and low. This method, together with the agitation produced by the agitator sprockets, keeps the elevator chain in a constant way motion, and loosens the soil from the potatoes before they reach the back of elevator.

Has lever at the right of operator for raising and lowering shaker screen that can be adjusted while machine is in operation. No need for the operator to change his position or to get off the machine.

We do not recommend the Climax Jr. for use with three or four horses. Where there is large acreage and it is necessary to use four horses we especially recommend the purchase of the Climax Senior digger, as it is built to stand the strain.

Width of elevator inside, 20 inches. Fork rower in the rear receives adjustment from both right and left main gears by means of rollers agitating against special shaped roller blocks. The rower or screen receives 16 jars of vibrations per revolution of the main wheel, and readily discharges potatoes, vines, etc., carried over the elevator.

Plow Point is made of high carbon, soft center steel, thickness 5/16-inch, beveled to avoid going too deep.

Shaker Fork has spring steel tines, diameter 7/16-inch, and fastened to frame by threaded ends and nuts.

Furnished with lead tongue truck. Adjusting levers convenient to operator. 36-inch drive wheels with malleable traction arms. Shipping weight, 625 lbs. 288B1800—Climax Junior 2-Horse Digger. Price.....\$69.50 Shipped from factory near Chicago.

We ship our new Climax diggers to you with the understanding that they will do as good work under similar conditions as any other digger of equal size. The Climax Jr. is fully equal to any other two horse digger, and for a four horse digger, the Climax Sr., we believe, has no superior.

Test our Climax Junior alongside any other two horse digger. Try our Climax Senior beside any four horse digger made. We are confident that they will operate to your entire satisfaction.

Lever Adjustment, Light Draft, Soft Center Steel Plow, Crucible Spring Steel Endless Carrier Chain

Steel Construction is one of the special features of our Climax Sr. It is far superior to the cast iron frame diggers that are clumsy and more difficult to handle. On the cast iron frame diggers the breakage of one piece means the renewal of practically the entire side frame, with big expense. The frame on the Climax Senior is made of channel steel, affording an insurance against breakage. As the front that connects the draft arms is of malleable iron, the danger of breakage or expense in procuring new parts is reduced to a minimum.

Lever Adjustment with special foot leverage permits the operator to easily control the machine.

Wheels, diameter 30 inches, are of steel with 1 1/4-inch cold rolled steel axles. The main beams or draft arms are malleable iron, securely fastened to heavy 5-inch steel channels in the frame, with the draft equally divided. Gears and pinions are interchangeable so that after becoming worn on one side they can be changed to the opposite side and are as good as new gears.

Endless Chain is of 1/4-inch round crucible spring steel, each alternate link being high and low, insuring perfect operation while in action. It passes over the special agitator sprocket and is in constant motion, causing the loosening of the soil before potatoes reach the back of the machine. Links are properly gauged to avoid the loss of small sized potatoes.

Agitators, in two complete sets, cause a constant way motion to the chains, practically insuring screening in the heaviest and hardest soil.

Pivot axle truck as shown here is especially adapted for use in uneven soil, avoids the possibility of tipping or straining when turning the machine. Has a range of adjustment to meet all requirements. Diameter of wheels, 14-inch.

288B1810—Pivot Axle Truck in place of regular. Ship. wt. 95 lbs. Price...\$3.25

## Climax Senior Digger

\$82.00

Channel Steel Frame



soil. The set of smaller agitators is furnished for use in light soil, reducing the amount of agitation. The change from the small to large agitators is at the option of the operator and depends upon the condition of the soil.

Plow Point is of the fin or turn-up type, of high carbon soft center steel, 3/4-inch thick. Is properly beveled and polishes easily.

Vine Carriers are governed by two large coil springs held by an adjustable rod to increase or decrease the tension. The vine carriers separate the vine from the potatoes and reduce the labor of picking materially, as the weeds and vines are thrown to one side and separated from the row of potatoes.

Pickers are arranged so that one or two teeth can be used as desired, one tooth being detachable.

Shaker Fork has tines of high carbon spring steel, 7/16-inch at base, and securely fastened to malleable side frame.

All power driving parts are key seated, avoiding weakness, lost motion, and insuring less breakage. Bearings, 4 in. all, furnished with compression grease cups. 2-Horse Eveners regularly furnished.

Truck regularly furnished guides the machine and on level ground answers all requirements. For uneven or hilly ground a pivot axle truck that adjusts itself to the angle of draft or the grade of the ground can be furnished at extra charge in place of the regular truck. Width of digger inside elevator, 22 inches. Shipping weight, 975 lbs. 288B1805—Climax Sr. Four-Horse Digger. Price.....\$82.00 Shipped from factory near Chicago.

Note—Much trouble has been experienced in the irrigated potato sections, and in some no digger has yet been found that will give complete satisfaction. In irrigated districts our Climax Sr. has proven efficient and it will positively give as good or better service than any digger manufactured in light or heavy soils.

See other pages for prices on four horse eveners.

## Climax Self-Feed Potato Planter

With or without Fertilizer. Will plant 5 to 7 acres per day. Self Feed. Disc Covers. Drops from 10 to 20 in.



\$37.50

Without Fertilizer

Our Climax Potato Planter, under another name, would readily be recognized as one of the leading planters on the market, having years of test and trial under practically all conditions. It is now offered to you with the assurance that there are none superior to it.

Our Climax is equipped with dropping device that automatically carries the potato from the hopper, where it is dropped into the seed tube. The carrying cups are properly spaced on an endless chain, giving accurate spacing in the row. Cups are adjustable so that they can be readily adapted to the size of the seed, insuring one seed at a time, and every seed in the right place.

Six different sizes of sprocket wheels are furnished to make adjustments to suit practically all conditions. The six sizes of sprockets, 10, 12, 14, 16, 18, or 20 inches apart. The elevator chain when a change of distance is desired.

Disc covers have concave discs, diameter 14 inches, and attached to heavy malleable disc arms, fastened to the main frame by means of double ratchets. Disc covers can be adjusted to any angle desired easily and quickly. A powerful tension spring holds discs in ground at all times.

A V-shaped furrow opener made of hardened steel is also supplied with a tension spring, thus insuring proper opening of the furrow to prevent seed from rolling or jumping.

Has marker that is adjustable to mark rows from 22 to 40 inches, and readily changed from one side of the machine to the other by hand lever convenient to the operator.

Climax Planters are constructed largely of steel and malleable iron, hopper being made of heavy sheet steel with capacity of 2 1/2 bushels. A slope is in bottom of hopper to keep the automatic feeder supplied. Wheels are steel, diameter 30 inches; distributing through spouts on each side of the planter shoe, can be furnished when so ordered. Shipping weight, 30 lbs.

288B1815—Climax Potato Planter. Price.....\$37.50

A fertilizer attachment with a funnel-shaped hopper, having a capacity of from 100 to 125 lbs. of fertilizer and dis-

## Schofield Combination Potato Planter and Digger

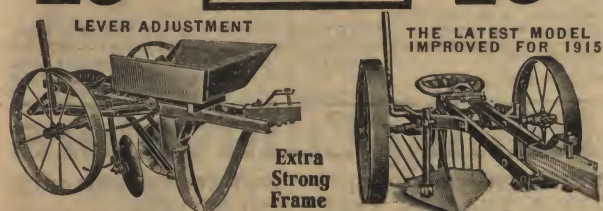
Combined Planter and Digger

Digger Only

\$23.75

Disks Adjustable for Hillside Work

\$18.55



IN SATISFACTORY USE IN ALL POTATO SECTIONS AND IN ALL KINDS OF SOIL. A BIG TIME AND LABOR SAVER. HEAVY CHANNEL STEEL FRAME, PRESSED STEEL SEAT.

A Combination Potato Planter and Digger that will do as good work in all kinds and conditions of ground as any other planter we know of, and at a lower price than any other combined tool of this kind. As a planter it marks, drops and covers all at the same time, and will plant, as desired, 12, 16 or 19 inches apart in a row by using different sized sprocket wheels which are furnished with each planter. It will plant any depth desired from 3 to 6 inches, by raising or lowering the lever. The dropping is done automatically by the machine; but a boy occupying the seat on the rear of the machine feeds the dropping device by hand, insuring more accurate dropping than can be done by the so-called self-drop planters. Covering discs are set to gather all the dirt thrown out by furrow opener, and can be adjusted to gather more or less dirt, or run deep or shallow. Wheels can be adjusted to suit different widths of rows. The other cut shows the tool arranged for digging, the digger attachment being mounted in the same manner. Can be set to run any desired depth and will not run too deep or too shallow. In digging, the operator rides and is in position to have perfect control over both team and digger. Separator bars allow the soil to pass through freely, raising the potatoes to the surface and leaving them in the best position to be picked. Hardwood tongue and hopper. Doubletires or neck yoke not furnished. Shipping weight of the machine, complete, 255 lbs. Directions with each.

288B1835—Price Combined Planter and Digger.....\$23.75

288B1837—Price of Planter without Digger. Shipping weight, 210 lbs. .... 19.85

288B1839—Price of the Digger only, without planter. Shipping weight, 205 lbs. .... 18.55

Shipped from warehouse near Chicago.

## New Climax Shaker Potato Diggers

Our New Climax Shaker Diggers are excellent, low priced tools that are easily handled, and will give good service.

The shaker at rear is flexible and keeps a continuous up and down motion while the digger is in operation. This motion screens the small particles of dirt through and holds up the potatoes to view. A paddle wheel under shaker bars agitates shaker. Works freely and satisfactorily, except when too heavily loaded by wet ground. Length of steel digger rods, 20 in., with hinge attachment, allowing free motion. The blade is made of crucible steel and will scour in any soil; handles have adjustable braces.

The No. 2 Double Beam Digger is especially adapted for sweet potatoes.

The gauge wheel truck makes easier to guide and less work for the operator and horses. Depth regulated on the gauge wheel attachment by adjusting side standards up or down. It straddles the hill and keeps the digger at uniform depth.

288B1846—No. 1 Single Beam Digger, complete with gauge wheel attachment. Shipping weight, 150 lbs. ....\$10.40

288B1848—No. 2 Double Beam Sweet Potato Digger. Shipping weight, 160 lbs. Price.....\$10.75

Shipped from warehouse near Chicago.



\$10.40

Complete

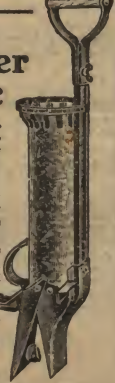
No. 1—Single Beam Style will give satisfactory service when ground is not too wet to be handled by Shaker.

## New Steel Potato Planter

Saves much hard work. 94c Plants quickly and uniformly. Adjustable Handle.

This Planter is made entirely of steel with the exception of the handle which is wood. The handle is automatic or self-locking. The handle is adjustable and can be raised or lowered to suit the height of the operator. Diameter of tube, 3 in. It always deposits the potato at the proper depth and covers it uniformly. The beak is sharp and enters the ground easily. A well made planter in every respect. Shipping weight, 4 1/2 lbs.

188B1855—Price .....94c



## Success Potato Digger

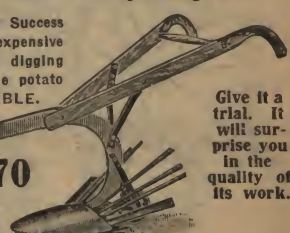
Extra Strong Beam. Adjustable Gauge Wheel. Six Separating Rods

Whether your potato patch is large or small, the Success will be found to be one of the handiest and least expensive tools. The low price and the saving of hard labor in digging by hand makes it desirable, no matter how small the potato field. EXTRA WELL MADE, STRONG AND DURABLE.

Beam is of forged steel, extra strong and with high arch, avoiding any danger of clogging with weeds or potato vines. The shape of the point avoids a tendency to cut the potatoes and it throws them out of the ground in good shape for picking. The handles are adjustable to height for deep or shallow planting. Guides easily. Gauge wheel in rear can be adjusted to suit the depth. The blade is of hardened crucible steel, ground and polished; the separating rods are of wrought steel, reinforced in the center; adjustable clevis. Retail at \$6.00 to \$7.00. Shipping weight, 85 lbs.

188B1860—Price at Chicago warehouse.....\$4.70

\$4.70



Give it a trial. It will surprise you in the quality of its work.



# Detroit-American Riding Cultivators

Formerly manufactured by the American Harrow Company, of Detroit. The well-known Detroit American Pivot Axle Cultivators are known in practically every state. They are adapted to all kinds of soil and cultivating conditions.

THE CONSTRUCTION is practically entirely of steel and malleable iron, the steel construction reducing the weight and increasing the strength.

THE PIVOT AXLE DEVICE is very simple. No complicated parts to get out of order. It is made with a small pivot base, which reduces the friction and makes the movement of the pivot shaft or axle very easy. The driver may give less attention to his team, as he automatically guides the machine through the pivoting or turning of the axle and wheels around any obstruction or irregularity in the row. Pressure of the feet on the short foot levers carries the wheels and gangs to the right or left, or brings them back in a straight line, as desired.

The pivot axle feature has great advantages in working crooked rows or turning around at the end of the row. It turns in a smaller space than rigid cultivators and makes it possible to cultivate closer to the fence. Also adapted for hillside work, as turning the wheels a little towards the hill the machine will hold closely in line. The frame may be locked rigid when desired.

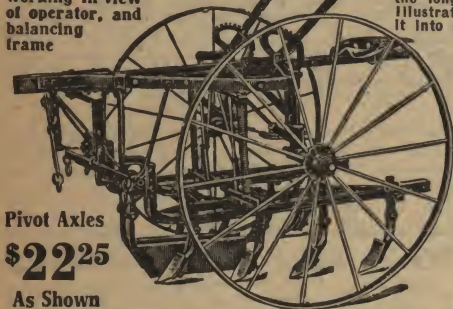
THE FRAME is triangular shape, made of 2x3 in. steel. Nothing in the center of the frame to obstruct the view of the row.

THE LEVERS are of high carbon steel, 1 1/2 x 3/4 in., and will not break. Lifting spring attached to the gangs gives a perfect balance and makes it easy to raise them or lower them into the ground.

The forward shovels are well in front of the axle, balancing the machine and making it easier to watch the row.

## With 8 Shovel Pin Break Gangs

Note the gangs are forward, working in view of operator, and balancing frame



Pivot Axles

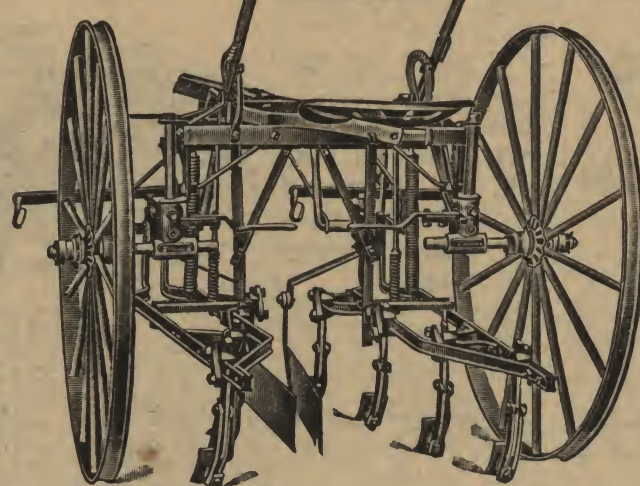
\$2225

As Shown

BALANCE FRAME—  
Pin Break, Spring  
Trip or Spring Tooth  
Gang

## Pivot Axles

For any Width  
of Row from  
30 inches  
up



We have secured the rights and privileges to market the Detroit-American Pivot Axle Cultivators. We will continue the high grade quality of material, the excellent construction and at lower prices than formerly asked by the American Harrow Company.

Either pin break or spring trip gangs with 4, 6 or 8 shovels, made of a high quality soft center steel. Shovels have swivel back so that they can be turned to throw the soil either to or from the row, or straight.

We recommend the 6 shovel spring trip gangs for all around work. The spring trip feature permits the shovels, when striking a root or stone, to spring back without danger of breaking the shovel or shank, and when it passes over an obstruction will spring again into place so that there is no need to get off the cultivator to adjust it.

The pin break gangs do the work equally well, except that they are more rigid, and when the teeth strike an obstruction that will not give, the wooden pin will break and necessitates putting in a new one.

The 8 shovel gangs will do excellent work in light soil where there is not much trash, but there is a little more tendency to clog up with trash than on the 6-shovel machine. Both the 6-shovel and 8-shovel gangs made either pin break or spring trip. Width of shovels on the 6-shovel gangs, 3 1/2 in.; on the 8-shovel gangs, 2 1/2 in.

## Spring Tooth Cultivator (Shown to the right)

Very popular in the Eastern States. Desirable in stumpy or stony ground, on account of the elasticity of the long spring teeth, permitting them to go over obstructions without damage to the teeth or machine. Illustration shows cultivator with two 4-shovel gangs and center section of three spring teeth, changing it into a spring tooth harrow. The center section is easily attached or removed, and when removed makes an excellent 8-shovel pivot axle spring tooth cultivator.

Wheels are steel, diameter, 48 in., with 2 in. channel steel tires. The width from outside to outside of wheels is adjustable and ranges from 45 to 57 in. The tongue is adjustable to height of team. The hitch and singletrees are of steel, without bolts or rivets, consequently nothing to wear out or break. Neck yoke and corn shields regularly furnished with each cultivator. The excellent balance on the machine will not permit the pole to fly up when sections are raised, and there is no neck weight on the horses. Seat is adjustable for height and distance from the foot levers. Average shipping weight of cultivator with pin break or spring tooth gangs, 410 lbs.; with spring trip gangs, 435 lbs.

For a more complete description of our D-A Cultivators, Disc Harrows, Spreaders, etc., write for our Detroit-American Implement Catalogue.

288B1900—Pivot Axle Cultivator, with 4-shovel pin break gangs.	Price.....	\$20.50
288B1902—Pivot Axle Cultivator, with 4-shovel spring trip gangs.	Price.....	22.40
288B1904—Pivot Axle Cultivator, with 6-shovel pin break gangs.	Price.....	21.75
288B1906—Pivot Axle Cultivator, with 6-shovel spring trip gangs.	Price.....	24.25
288B1908—Pivot Axle Cultivator, with 8-shovel pin break gangs.	Price.....	22.25
288B1910—Pivot Axle Cultivator, with 8-shovel spring trip gangs.	Price.....	25.75
288B1912—Pivot Axle Cultivator, complete with 8-shovel spring tooth gangs and extra three tooth center attachment (as shown to the right).....		24.50

Shipped from warehouse near Chicago.

## Detroit-American Spring Tooth Cultivator

Made for Spring Teeth only. Not Furnished with Shovel Gangs

Exceptionally well adapted for level cultivation because there are five teeth on each one of the sections, with points set just tight enough to work all the surface. The teeth are positively controlled at all times by lock levers, because the gangs are movable on balls. Steel frame. Extra strong and durable. Nothing in the center of the frame to obstruct the view of the row.

The spring teeth work satisfactorily in light or heavy soils. Levers are high grade carbon steel, 48-inch steel wheels with 2-inch channel steel tires and 2-inch hubs. Pressed steel, adjustable seat. Oak singletrees and neck yoke and 8 ft. tongue, adjustable in height to suit team and weight of operator, giving perfect balance, and preventing neck weight. Gangs connected to front arch by malleable castings, allowing easy swing up and down or to the side. No tipping or twisting so that shovels run deeper on one side than on the other. Front coupling adjustable to any position of the front arch. Gangs may be spread by simple bolt and nut attachment, and easily done in the field with wrench which is furnished. Gangs moved from side to side by foot pressure in the stirrups. Each stirrup has upper and lower rollers, allowing easy gang guiding, thereby making it one of the "quickest dodge" corn plows. Sockets holding the corn arch are adjustable so that gangs can be set close together or far apart. Adjustable tension coil spring with lever connection permits easy lifting of gangs. Made in two widths, Narrow or Wide Model. The Narrow Model will not work good in rows less than 3 ft. apart, but does excellent work on rows from 3 ft. to 3 ft. 10 in. apart.

The Wide Model measures 6 1/2 ft. across tires with wheels set close to work rows 3 1/2 ft. or more apart. With wheels extended to 8 ft. across tires will handle 3 rows of beans or other crops planted 28 in. to 30 in. apart, each gang working each full side of center row.

288B1920—Detroit-American 10-Tooth, Spring Tooth Cultivator. For 3 ft. to 3 ft. 10 in. rows. Narrow Model. Shipping weight, about 415 lbs. Price.....

288B1922—Detroit-American 10-Tooth, Spring Tooth Cultivator. For 3 1/2 ft. rows and up. Wide Model. Shipping weight, about 425 lbs. Price.....

288B1924—5-Tooth center attachment to convert cultivator into 15-Tooth Harrow. Weight, 40 lbs. Price, extra.....

## Pivot Axle Horse Lift

\$2050 to \$2375

New Style  
Spring  
Trips



Showing 6-Shovel Spring Trip Model with Curved Beams

## New Climax

BALANCE FRAME. ADJUSTABLE GANGS. LONG DISTANCE, OIL RETAINING HUBS.

Horse-lift allows the horse to do the work of raising and lowering gangs, and balancing cultivator.

Not necessary for operator to raise one gang at a time, and then balance cultivator at the end of every row. Thumb latch releases balancing lever, and lets the horses do the work. One of the simplest, handiest and easiest operated balance frame Riding Cultivators.

Our New Climax for 1915 is a leader of Riding Cultivators. It has all the desirable features of the most modern cultivators, including horse-lift, balance frame, adjustable wheels, ease of operation, excellent construction and material, and at prices considerably less than the leading similar cultivators are sold for at retail.

We feel that our New Climax will please you. We know that it embodies the most desirable features for cultivating. Horse-lift feature, one of the most important in modern Riding Cultivators, is especially attractive to the operator. It eliminates raising the gangs one at a time, and balancing cultivator at the end of every row. The horses do all the work of raising and lowering the gangs, and balancing the cultivator. This is accomplished by releasing the thumb latch of balancing lever, placing the work directly on the horses. The releasing of lever saves three operations on other cultivators. Pulling the balancing lever back into place and starting another row, automatically balances the cultivator and places gangs in action again.

In addition to the balancing lever, a lever is furnished for each gang, to regulate depth of plowing. Strong, adjustable coil springs on each gang permit easy handling by the operator when in the ground. Wheels are adjustable in width from 44 to 52 in. Diameter of steel wheels, 42 in., with 2 in. oval tires, furnished with long distance oil-retaining hubs.

## Detroit-American Combined Harrow, Seeder and Cultivator

A Combination 15-tooth Harrow, Seeder and Cultivator. Figure it out yourself. What would you pay for a good 15-Spring Tooth Harrow, a Broadcast Grain Seeder, and a 10-Tooth Cultivator? Then notice the price we ask for the machine complete with these attachments. A big saving to you.

The Force Feed Broadcast Seeder Attachment can be used on either the narrow or wide model Cultivator. It is fastened on the frame and does not obstruct the view from the seat. Is low down, so that the seed is discharged only a short distance from the ground. The indicator, showing quantity to be sown, and the lever regulating it are on the side next to the operator and can be set instantly for any desired amount. The feed mechanism is propelled by sprocket and chain driven from the left-hand wheel. The seed is discharged into four short spouts, each of which has at the bottom a convex-shaped plate, on which the seed falls and is thus scattered evenly over the surface of the ground. The seed is then covered just right by the spring teeth, the depth of which is determined by position of levers. Adapted for sowing wheat, oats, rye, barley, flax, peas, corn, etc., but not suitable for sowing grass seed.

To use as Cultivator, simply remove the center triple-tooth attachment, thereby converting the machine into a splendid Spring-Tooth Cultivator with Broadcast Seeder Attachment.

Furnished complete with tongue, singletrees and neck yoke, same as furnished with Spring-Tooth Cultivators.

For description of Narrow and Wide Models and of operating parts, see description of Spring-Tooth Cultivators.

## Detroit-American Bean Harvester

Does the Work of Several Men

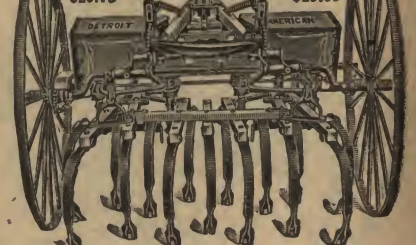
Getting the bean crop harvested quickly, with the least possible expense and labor is of the greatest importance. Pulling beans by hand is a very slow, hard job, and very expensive; the beans must be harvested just when time is valuable and help scarce. With our Bean Harvester the problem is solved at a small cost.

By means of the rod on the patent flexible rolling dividers, the vines are gathered and brought together in a window at the rear, free from roots and dirt. The adjustment is simple, and may be easily operated from the seat, as to depth by means of the levers. Stone guards in front of the drive wheels.

For the convenience of those now possessing a Detroit-American Spring Tooth Cultivator, who may not desire to purchase a complete Bean Harvester, we quote the attachment separately. It cannot be used with pivot axle cultivators.

The Bean Harvester Attachment is easily and quickly put on in place of the spring-tooth gangs.

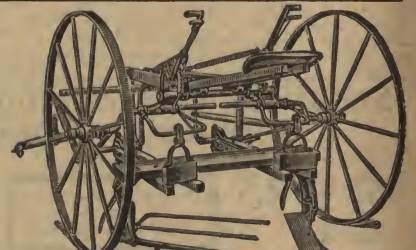
## Narrow Model Complete, \$29.75



288B1934—Detroit-American Harrow, Seeds and Cultivator, Complete, Narrow Model. Ship. wt., 560 lbs. ....

288B1936—Detroit-American Harrow, Seeds and Cultivator, Complete, Wide Model. Ship. wt., 575 lbs. ....

Shipped from Warehouse near Chicago



288B1946—Detroit-American Bean Harvester, complete. Ship. wt., about 465 lbs. ....

288B1948—Bean Harvester Attachment only. Ship. wt., 155 lbs. ....

Shipped from warehouse near Chicago

## Horse-Lift Riding Cultivators

BALANCE FRAME. ADJUSTABLE GANGS. SOFT CENTER SHOVELS. IMPROVED FOR 1915. LONG DISTANCE, OIL RETAINING HUBS. STEEL FRAMES, AXLES AND BEAMS.

Can be furnished with either curved or straight beams, as desired. Larger illustration shows curved beams with improved 1916 compound lever spring trip gangs. Smaller illustration shows straight beams with pin break gangs. We especially recommend our spring trip gangs, as our new style forward coil spring-governed shovels, with compound lever action, are, we believe, unsurpassed. Shovels are made of an excellent grade of soft center steel, and will scour in any soil. Each cultivator furnished complete with whiffletrees, neck yoke, shields and handles to use as a walking cultivator, when desired. Average shipping weight, 450 lbs.

### Prices on 1916 New Climax Balance Frame, Horse-Lift Riding Cultivator

288B1958—No. 10. Complete with four 5-in. pin break shovels, curved beams. ....

288B1960—No. 11. Complete with six 3 1/2-in. pin break shovels, curved beams. ....

288B1962—No. 12. Complete with eight 3-in. pin break shovels, curved beams. ....

288B1964—No. 13. Complete with four 5-in. spring trip shovels, curved beams. ....

288B1966—No. 14. Complete with six 3 1/2-in. spring trip shovels, curved beams. ....

288B1968—No. 15. Complete with four 5-in. pin break shovels, straight beams. ....

288B1970—No. 16. Complete with six 3 1/2-in. pin break shovels, straight beams. ....

Shipped from warehouse near Chicago



Showing Straight Beams, Pin Break Gangs



## Superior Walking Cultivator



**Soft Center Steel Shovels**  
**New Improved Spring Trips**  
**Adjustable Wheels**  
**Improved Steel Hitch**

288B2000—With 4 shovel gangs, pin break, ..... \$11.85  
288B2002—With 6 shovel gangs, pin break, ..... \$14.90  
288B2004—With 8 shovel gangs, pin break, ..... \$13.85

When cultivating, has no tension on the gangs; when raising, springs do the work. Adjustable to different width of rows and for varied depths of plowing. By the distribution of weight and the application of springs a balanced machine is produced. Furnished with either pin break or spring trip gangs. Spring trips are the new, improved style; forward spring coils and compound lever action, afford smooth action and high-lift over obstructions. Tension of spring coils is adjustable. Extra strong lever action. We believe that our new spring trip action is unsurpassed. Adjustable lock centers allow different settings of handles.

Complete with fenders, tool box, singletrees and neckyoke. Equal to cultivators usually retailed for \$18 to \$20. High quality, soft center steel shovels, adjustable steel wheels and arch; strongly braced steel frame. Ship. wt., 240 to 280 lbs.

## Climax Steel Frame Weeder

Frame is made of angle steel, well braced, built light but very strong. Has 39 teeth, so arranged that the teeth do not track. Each tooth is fastened with a separate clip, so that it can be removed. By removing some of the teeth the weeder can also be used as a cultivator in rows of vegetables, etc. Teeth are 7/8-in. width, half oval, with round points, and made of good quality spring steel; height, about 1.8 in. Shafts and handles are adjustable. Can be used in any soil and will be found of great benefit in pulverizing the top crust around young plants. Shipping weight, 95 lbs.



288B2012—Price, complete ..... \$6.15  
Shipped from warehouse near Chicago or factory in Ohio.

## Superior Tongueless Cultivator



Always a favorite. We distribute hundreds of these little cultivators to our customers every season, at a saving of \$4 to \$5 each. It is high, double wrought-iron arch, 26 inch, steel wheels, with 3 in. tires, direct hitch and adjustable couplings. The beams are adjustable to different width rows and can be raised or lowered by reversing beam coupling casting. The hitch gives absolutely free motion to each rig, independent of the other, compelling each horse to do an equal share of the work. Has four 5-in. soft center steel curved shovels, which are interchangeable and adjustable to any desired pitch, so as to throw the dirt either to or from the corn, thus insuring good work. Beams and legs made out of No. 1 seasoned white oak. Fenders, drag bars, singletrees and wrench included. Retailers ask \$14 to \$15. Shipping weight, 180 lbs.

288B2016—Price, with four 5-inch shovels, ..... \$10.45  
Shipped from warehouse near Chicago.

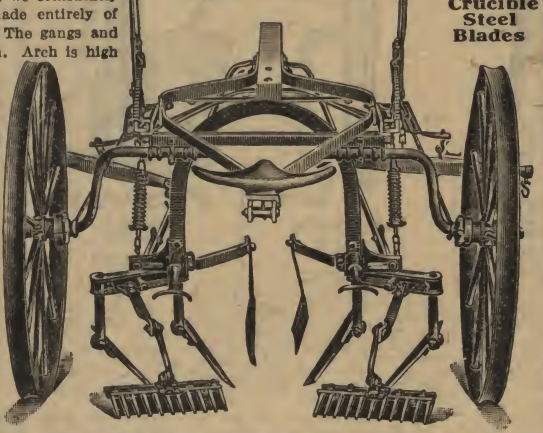
## New Climax Surface Cultivator

Surface cultivation is fast becoming popular in all the corn growing sections. The blades do not cut the roots of the corn but work the top surface only, thoroughly pulverize it and keep it moist. The New Climax, we confidently believe, is the equal of any surface cultivator made. It is made entirely of iron and steel, very easy to operate, and has no neck weight. The gangs and arch are flexible, and adjustable to the different widths of corn. Arch is high and strong, and each gang is released with a lever operating on sliding ratchets, and within easy reach of the operator. Wheels, diameter, 42 in., with 2-inch oval tires, are adjustable from 42 to 46 in. width. Wheels supplied with dust-proof, oil-retaining boxes. Length of knives, 22 in. on cutting edge and 24 in. on outside. Made of high carbon crucible steel. Each knife can be set independently of the others, allowing them to be placed in any desired position. Knife castings are fitted with lugs, preventing operator from laying the lugs too straight. The levers are the rake tooth pattern, with inner sheet guard, and are adjustable so that they can be regulated to the pressure desired, and at any angle to insure a level, pulverized surface, regardless of the kind of soil. Seat is adjustable to suit height or weight of operator.

The range of adjustment adapts our New Climax Surface Cultivator to all kinds of soils. It is easy on the team, easy on the operator, and its many adjustable features permit better work.

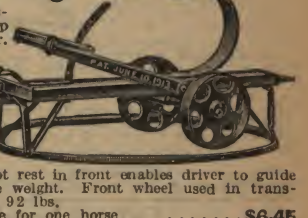
288B2014—New Climax Surface Cultivator. Complete with whiffletree, neckyoke and shields. Shipping weight, 430 lbs. Price ..... \$21.90  
Shipped from warehouse near Chicago.

**Adjustable Gangs**  
**High Arch**  
**No Neck Weight**  
**Dust-Proof Hubs**  
**Crucible Steel Blades**



## Climax Corn Mulcher

For working between rows of corn. Especially desirable in sections where the top soil tends to cake or harden in dry weather. It destroys small weeds, makes a good dust mulch, leaves surface without furrows or ridges. Hand lever to adjust depth. The mulcher is an oval band of steel, with cutting edges on each side that can be reversed when one side becomes worn. Heavy hardwood frame, steel operating parts. Width of hoop in center, 30 in. Foot rest in front enables driver to guide machine. Two 8-inch rear wheels carry the weight. Front wheel used in transporting or turning corners. Shipping weight, 92 lbs.



288B2018—Price, complete, with singletree for one horse, ..... \$6.45  
Shipped from factory in Northern Indiana.

## HAND AND HORSE CULTIVATORS

### Mayflower No. 3 Cultivator

**Adjusts from 10 to 26 inches in width**  
**For Cultivator complete with 5 3-inch Shovels, Horse Hoes, Long Handle Braces and Lead Wheel**

One-horse Lever Cultivator, complete, with 5 cultivating shovels, horse hoes, long handle braces and lead wheel. The horse hoe attachment consists of a right and left hand hoe and a center shovel. The hoes can be set at different angles and can be arranged to throw the dirt to or from the plants. Steel frame is strong, rigid and full braced. Handles have the long braces as well as the V-brace. Shovel standards are steel, forged to shape and will not bend Width of shovels, 3 in., and are reversible, that is, or break in the cultivation of the most stubborn soil. Can be turned when worn. Shipping weight, 60 lbs.

188B2020—Price, complete ..... \$3.45

### Chicago, Jr., Single and Double Wheel Hoe, With Steel Plow, Cultivator, Rake and Weeder

Especially desirable for onion cultivation. Made entirely of steel and iron, except the handles, which are of oak. The arch frame is of steel; tool bars are adjustable in width as well as to any desired angle. The arch is high so that corn and other crops may be cultivated on both sides of row at same time until 22 in. high. Then, using the machine in its one-wheel form, crops of any height may be cultivated. The wheels are steel, height 16 in., with 1 1/2 inch tires. Handles are attached to center of wheels, using all the power direct, and drawing the tools, instead of pushing them. We furnish a full outfit of standard tools: two plows for breaking, furrowing, covering, marking, and hilling; two 6-in. hoes (for general cultivation—more used than any other tool); two rakes (for fining, leveling and first cultivation); and six cultivator teeth (for deep work, also for cultivating between rows when hilling). Shipping weight, 40 lbs.

188B2022—Price ..... \$4.20  
188B2024—Spring tooth weeder for above extra. Shipping weight, 8 lbs. .... .85

### Mayflower No. 2 Cultivator

**Steel Frame, Strong, Rigid and Fully Braced Against Lateral Strain by Double Bars of the Spreaders.**

**Adjusts from 10 to 26 inches**

Can be adjusted by use of the lever to suit the width between rows while the cultivator is in motion. The steel frame is strong, rigid and full-braced. The shovel standards are steel, forged to shape, and will not bend or break in the cultivation of the most stubborn soil. Width of shovels, 3 inches, double pointed, and can be turned when worn. Will scour in any soil. Long handle braces to make handles rigid and prevent wobbling furnished at extra charge. Shipping weight, 55 lbs.

188B2026—Price ..... \$2.40  
188B2028—Long handle braces. Shipping weight, 2 1/2 lbs. Extra ..... .15c  
188B2030—Lead wheel, shipping weight, 5 1/2 lbs. Extra ..... .30c

### Diverse Cultivator with Lever Expanders

**Spring Steel Teeth**  
**Steel Beam**

Each side is controlled by a separate lever and will work independently.

Almost indispensable in the cultivation of corn, cotton, potatoes, etc. By throwing one lever forward and the other back, the cultivator is converted into a right or left side harrow for hill work. With center tooth removed, it will straddle the rows. Can be opened to a width of 33 inches. Equipped with 2-inch reversible shovels bolted to ends of the teeth. Shipping weight, about 55 pounds.

188B2032—Diverse Cultivator. Price ..... \$3.70

### Dexter Cultivator

Light, strong and easy to operate. Saves you much time and does splendid work. Many thousands in use. Excellent cultivator and garden plow for working in and around plants and shrubs in the garden. Has adjustable iron frame. Length of Bull tongue, 12 in., and tapers 3/4 to 1 in. The sweep 8x12 turning blade 5x12. Rake and wrench also included. Diameter of wheel, 18 in. Shipping weight, 18 lbs. Retail price, \$2.50.

188B2034—Price, complete ..... \$1.45

### Climax Cultivator, Hoe and Plow

Body does the work. Hands guide the tools. Flexible tool frame. Light running Push bar drives and propels cultivator. Being hinged at the axle and the frame, the cultivator can be shifted from right to left without changing the course of the wheel. Operator pushes the cultivator with the weight of his body, while his hands are free to guide the machine. Diameter of wheel, 18 inches. The attachments furnished are five spring steel cultivator teeth, one right hand hoe or wood cutter and one large right hand plow. Shipping weight, complete, 23 lbs.

188B2036—Price, complete ..... \$2.15

### Challenge Garden Tool

21-in. steel wheel, all steel frame, bent hand holds, adjustable handles, power direct on axle, easy to handle. Light, handy, convenient, adjustable all around cultivating tool. The power being directly on the axle, it guides easily, keeps to uniform depth better and requires less power than tools with handles connected to frame; high wheel aids materially in light running. Steel frame is light, but very strong. Attachments are turning plow, rake, calf tongue, 8 inch sweep, and wrench. Tools can be adjusted on standards to the different heights for shallow or deep cultivating. Handles can be raised or lowered. Shipping weight, 20 lbs.

188B2040—Price, complete ..... \$1.85

### 5 in 1 Garden Tool

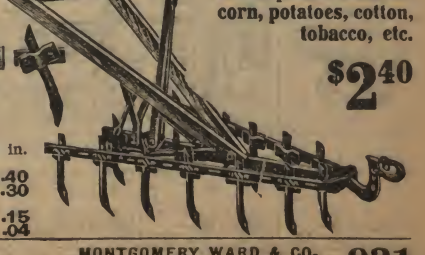
A great labor saver. Rear wheel gauges depth, steel frame, steel wheel. Much easier to guide than a single wheel tool. Handles attached to front axle, have the effect of pulling on the tool frame. The attachments can be readily adjusted; diameter, front wheel, 18 inches, rear wheel, 14 inches. The attachments furnished are sufficient to cultivate almost any garden crop and include one reversible bull tongue, three cultivator teeth, one sweep, one turn-shovel, one rake and wrench. Shipping weight, 25 lbs.

188B2042—Price, complete ..... \$2.45

### Little Giant 14-Tooth Lever Harrow

It thoroughly pulverizes, but throws no dirt on the plants. It is also used as a smoother with the sharp points down in order to cut and level the surface. The teeth with shovel ends down are less liable to injure the plants. For very close work every other tooth can be removed. The teeth are diamond shaped, can be reversed, adjusted up or down and the slant changed as desired. Size teeth, 1/2x1 1/2 inches. Strong steel frame, steel handle braces. Can be adjusted in width from 10 1/2 to 33 in. Shipping weight, 55 lbs.

188B2075—Price with spreading lever ..... \$2.40  
188B2077—Lead wheel, wt., 5 1/2 lbs., extra ..... .30  
188B2079—Long handle braces, wt., 2 1/2 lbs., extra ..... .15  
188B2081—Extra teeth, wt., 1 lb. Each ..... .04



### Mayflower No. 4 Cultivator

**Complete with 5 3-in. shovels, 3-horse hoes, lever wheels and rear wheel depth regulator.**

Same cultivator as No. 2, except that it is fitted with ideal horse hoes; rear wheel depth regulator and outside handle braces. It can be set to the various depths by the wheel lever. This rear wheel depth regulator will relieve operator from all strain in holding cultivator and from running for transporting from field to field. Depth may be regulated while in motion. Turns easily at the end of the row. By the lever expander the width also can be changed instantly from 10 to 26 inches. Complete with outside handle braces. Horse hoes can be set to throw dirt to or from plants. Adjustable to any angle. Especially adapted for hilling. Shipping wt., 85 lbs.

288B2038—Price, complete ..... \$4.30  
Shipped promptly from stock at Chicago or from factory in Ohio.

### CULTIVATOR SWEEPS

Will fit all Mayflower Cultivators. For first cultivation and adjustable to run deep or shallow. Made of high carbon crucible steel, and will not bend with ordinary usage. They are made in four sizes. Furnished complete with bolts, ready to attach. Will fit any of our Mayflower, one-horse cultivators.

88B2044—8 in., wt., 20 ..... .15c  
88B2046—10 in., wt., 22 ..... .16c  
88B2048—12 in., wt., 26 ..... .17c  
88B2050—14 in., wt., 28 ..... .18c

### IDEAL HORSE HOES FOR No. 2 CULTIVATOR

These 8 in. steel hoes are attachments for our Mayflower Cultivators, and consist of a center, right and left hoe. Arranged on swivel, so that the dirt is thrown either to or from the crop. Ship. wt., 14 lbs.

188B2054—Per set ..... 80c

### STEEL SPRING TEETH

A set of 5 of these teeth will convert any of our one-horse cultivators into a Spring Tooth Cultivator. Ship. wt., per set 15 1/2 lbs.

188B2060—Price, per set of five teeth, with blocks to attach ..... \$1.20

### BEEF WEEDERS

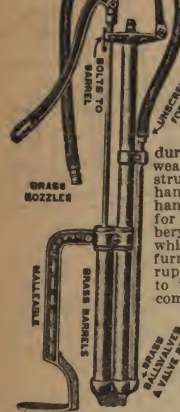
For Mayflower Cultivators 8 in. steel blades, complete with clamp. 88B2056—Per pair, with clamp to attach. Ship. wt., 6 lbs. .... 50c



## Climax Combination Sprayer

\$9.60

Fits any pail or bucket and can be attached to barrel. Extra large air chamber gives almost continuous spray.



Very handy, inexpensive, general purpose sprayer. Lever handle makes easy operation. For whitewashing, fine or coarse spraying. Will throw a solid stream 40 feet, horizontally.

A good, medium, all around pump. A little lighter than the regular barrel pump, but just as effective. More powerful and more durable than a regular bucket pump. Its wearing qualities are of the best, as it is constructed almost entirely of brass. The lever handle works much easier than the plunger handle furnished on bucket pumps. Adapted for the various kinds of tree, bush, shrubbery or garden spraying, washing windows, whitewashing poultry houses, etc. Regularly furnished with removable malleable iron stirrup for use with bucket. Also connecting plate to use on barrel, 3 ft. of 1/2 in. hose and a combination brass nozzle for fine mist spraying, coarse spraying or stream. Has barrel plate to fit ordinary barrels. Directions for operating. Shipping wt., 11 lbs.

188B2106—Price, complete...\$3.60  
188B2176—Bordeaux Nozzle, for whitewashing. Wt., 4 oz.....48c

## Geared Dry Powder Duster

\$5.65

Distributes any dry powder. Paris Green, Hellebore, Dry Bordeaux Mixture, Bug Death, Etc. For Farm, Garden, Vineyard or Tobacco Fields.



Will cover two rows at a time as fast as the operator can walk. Can readily be adjusted for different width rows. The reservoir holds over 1 quart of powder or 4 pounds of Paris Green. The duster is provided with an agitator producing a constant flow of powder, which is blown out by the fan; also a gauge for regulating the amount of powder to be used. Suitable for dusting trees when tubes are connected. The side arms and gear are made of cast iron and the gauge of brass. Balance of the machine is made of heavy tin, nicely painted. Regularly furnished complete with shoulder strap, three tubes, two nozzles, one Y and two elbow connections with each machine. Net weight, 6 lbs. Shipping weight, about 10 lbs.  
188B2108—Geared Dry Powder Duster. Price.....\$5.65

## Climax Hand Sprayer

Effective and Satisfactory Little Sprayer. Especially Adapted for Spraying Flowers, Plants and Bushes. Extremely valuable as a disinfectant in the house. Reservoir holds 1 1/2 pints. Has screw top for filling. Its fine, mist-like spray covers a large radius. Made of heavy tin. Ship. wt., 20 oz.

188B2120—Climax Sprayer. Price.....22c

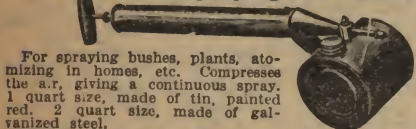
## Climax Glass Jar Sprayer

The reservoir is a regular 1 quart Mason glass jar, not affected by poisons. Screw cap for filling. Ingredients are in view at all times, so that the operator can see just how they work. Has long air chamber with expansion plunger. Suitable for spraying plants, bushes, and young trees. Directions with each. Weight, 1 1/2 lbs.

188B2122—Price, each.....36c

## Peerless Compressed Air Hand Sprayer

All parts easily removable for cleaning and adjusting. Two nozzles, for fine or coarse spraying. Two sizes.



For spraying bushes, plants, atomizing in homes, etc. Compresses the air, giving a continuous spray. 1 quart size, made of tin, painted red. 2 quart size, made of galvanized steel.

188B2124—1 qt. size. Ship. wt., 1 1/2 lbs....48c  
188B2126—2 qt. size. Ship. wt., 2 lbs....74c

## Climax Lever Nozzle

No Liquids Wasted Works automatically with hand and fingers. Will not clog, as obstructions are agitated and forced out simply by pressing lever. Made of brass, threaded to fit 1/4 inch pipe. Weight, 12 oz.

188B2164—Climax Lever Nozzle. Price.....85c

## Climax Angle Spray Nozzle

Made of Aluminum An exceptionally good nozzle for general purpose spraying. Is very light. The angle curve readily enables user to get under leaves or reach difficult places. Has hard rubber whirl and two steel discs, one for coarse and one for fine spraying. Threaded for 1/4 in. pipe. Weight, 2 oz.

188B2168—Price.....55c

## Armstrong Brass Whitewash Nozzle

Two holes tapering towards each other, so that when whitewash or other fluid is flowing under pressure, one stream against the other, a broad, flat, brush-like spray is produced. If the nozzle becomes clogged, it is simply necessary to turn the lever key half way around, blowing out the sediment instantly. The stem is threaded to receive 1/4 inch pipe. Wt., 5 oz.

188B2172—Price.....30c

## New Bordeaux Nozzle

For whitewashing, cold water paints and spraying. Makes a flat fan spray. For 1/4 in. pipe. Wt., 4 oz.

188B2176—Price, each 48c

## Vermorel Nozzles

Single Spray, threaded for 1/4 in. pipe. Double Spray. Made of brass, threaded for 1/4 in. pipe. For wide spray. Each cluster has two caps, one for coarse and one for fine spraying. Weight, 8 oz.

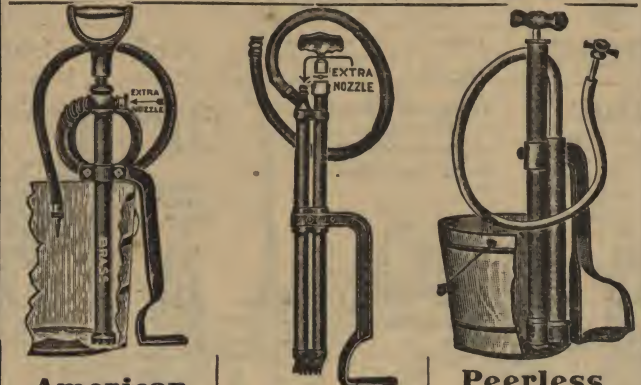
188B2180—Price, each 50c  
188B2184—Price, each 1.00

932 MONTGOMERY WARD & CO. CHICAGO

# Sprayers

## Brass Bucket Spray Pumps

All nozzles are brass and have 1/4-inch thread, unless otherwise stated. No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service. The American Pump is double acting; that is, it works on both the up and down stroke, giving a continuous spray or stream. The Climax and Peerless Pumps are single acting, giving pressure on the down stroke only, the upper stroke taking the spray into the cylinder. They do not give as continuous a spray or stream as the double acting pump. The Peerless is made more powerful and durable, has heavier material, larger cylinders, additional hose, and is equipped with the celebrated Peerless nozzle. The American and Climax are supplied with fire nozzle to throw a horizontal stream 40 feet. All have solid brass ball valves, and adjustable foot brackets.



### American

\$2.05

188B2100

Has brass cylinder and plunger, double acting continuous spray or stream, 3 1/2 ft. hose. For all kinds of spraying or for fire fighting. Combination fine and coarse spray nozzle; solid stream fire nozzle (see additional description above). Shipping weight, 5 1/2 lbs.

188B2176—Bordeaux Nozzle for Whitewashing. To use with any of our brass bucket pumps. Also suitable for general spraying. Easily cleaned and adjusted. Weight, 4 oz. Price.....48c

### Climax

\$1.95

188B2102

Double brass tubes. Single acting. Ball valves. Complete with 3 1/2 ft. hose and Imperial combination nozzle for fine or coarse spray, or a solid stream. (See additional description above.) Shipping weight, 6 lbs.

188B2136—Capacity of tank, 4 gallons. Shipping weight, 12 1/2 lbs. Each.....\$3.85

### Peerless

\$2.95

188B2104

1 1/2 in. cylinder; agitator; 4 ft. of 1/2 inch hose. Nozzle for fine, medium or coarse spray. Very durable. Many in use 15 years, and still doing good work. (See additional description above.) Shipping weight, 8 1/2 lbs.

188B2136—Capacity of tank, 4 gallons. Shipping weight, 12 1/2 lbs. Each.....\$3.85

## No. 66 Compressed Air Sprayer

Manufacturer's List Price, \$7.25

Especially adapted for Whitewashing, Paris Green and Cold Water Paints. Non-clog nozzle, has needle cleaner points. Operated instantly by lever.

Brass Pump. Tank made of heavy galvanized steel with double seamed head. Capacity, about 3 1/2 gallons. Shoulder straps for carrying. Safety valve.

To our knowledge there is no similar sprayer of equal capacity superior to it. The brass lever nozzle alone retails up to \$1.50. The workmanship is excellent, and with a little care this sprayer will give long and satisfactory service. We especially recommend it for light spraying and for regular home use. Has 2 feet of half inch hose, with brass connections, coiled spring on hose near tank. Connection prevents flattening and damage to hose. Carefully packed. Shipping weight, 9 lbs.

188B2188—Price.....\$3.20

## Armstrong Compressed Air Sprayer

3, 5 and 8 Gallon Sizes Tank is made of galvanized steel, riveted top and side seams. The powerful pump is seamless brass. When tank is two-thirds full, two operations of air supply will empty it.

With tank one-third full of solution will spray from 10 to 15 minutes with one filling of air. Especially designed to thoroughly mix whitewash, cold water paints, Paris Green, etc. Furnished with spray nozzle and shut-off, with two tips, one for fine mist, and other for coarse, heavy spraying. Shoulder strap on each. One carrying handle on 3 gallon size; 2 handles on 5 and 8 gallon sizes. Capacities are actual, but tanks hold one-third more for air. Shipping weights, 12, 16 and 18 1/2 lbs., respectively.

188B2128—3 gal., with 3 ft. hose.....\$3.30  
188B2130—5 gal., with 4 ft. hose.....3.95  
188B2132—8 gal., with 6 ft. hose.....4.60  
188B2172—Armstrong Whitewash Nozzle. Wt., 4 oz.....30c

## Climax Spray Powder

Five pounds will make 50 gallons Liquid Spray. Destroys all leaf-eating insects—Prevents blight. Easily mixed and sure to kill.

Equally effective on trees, bushes, plants or vegetables. Can be used dry or in liquid form, for vineyards, orchards, berry patches, shade trees, vegetables, etc.

Its extreme fineness insures uniform spray. Will stick to the leaves. Is not easily washed off. An excellent preventative of blight. Dissolves quickly in water, is very easily mixed and can be used in any sprayer.

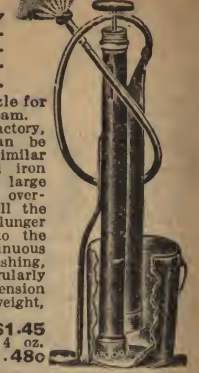
188B2205—Price for 1-lb. can.....\$0.17  
188B2207—Price for 5-lb. can......75  
188B2209—Price for 10-lb. can.....1.35  
188B2211—Price for 100-lb. drum.....9.50  
100-lb. Drums shipped from factory in New York.

188B2205—Price for 1-lb. can.....\$0.17  
188B2207—Price for 5-lb. can......75  
188B2209—Price for 10-lb. can.....1.35  
188B2211—Price for 100-lb. drum.....9.50  
100-lb. Drums shipped from factory in New York.

932 MONTGOMERY WARD & CO. CHICAGO

## New Boss Bucket Sprayer

For general spray purposes, whitewashing, sprinkling, washing windows, vehicles, etc.



Has Imperial Combination Brass Nozzle for Fine or Coarse Spray and for Solid Stream. One of the most economical and satisfactory, low-priced bucket sprayers made. Can be used in any pail, bucket or vessel of similar size. The main tubing of galvanized iron with top and bottom of brass. Has large air chamber and ball valves. Has an overflow that carries back into the pail all the liquid that gets above the plunger. Plunger is easily removed for cleaning. Due to the large air chamber the pump gives a continuous stream or spray. Excellent for whitewashing, as well as all kinds of spraying. Regularly furnished with 3 ft. of hose and extension pipe. Has steel foot stirrup. Shipping weight, 2 1/2 lbs.

188B2110—New Boss Sprayer.....\$1.45  
188B2176—Bordeaux Nozzle, Weight, 4 oz. For whitewashing.....48c

## American Sprayer and Fire Pump

Will do all your spraying and is always ready to fight fire. 4 gallon and 6 gallon sizes.

For whitewashing and general farm spraying. Will meet the different requirements satisfactorily.

For Fire Protection, with fire nozzle, throws a solid, horizontal stream 40 ft. The stream begins as soon as the pump is operated. Within ten seconds a stream can be turned on a fire. Pump is double acting, forcing spray or stream on both up and down stroke. Has brass cylinders, brass ball valves and brass connections. Tanks are heavy galvanized steel or heavy gauge copper, as ordered.

Regular Equipment consists of tank and pump complete with two brass nozzles, one for fire purposes and one for fine, medium or coarse spraying. Spray nozzle screws on holder opposite hose connection when not in use.

188B2112—4-gal. size, with galvanized steel tank and 3 ft. of hose. Shipping wt., 12 lbs.....\$3.00

188B2114—6-gal. size, with galvanized steel tank, 1/2 in. hose and 2 ft. extension pipe. Shipping weight, 15 lbs. Price.....\$3.90

188B2116—6-gal. size, with all copper tank. Shipping wt., 14 1/2 lbs. Price.....\$5.90



## Spray Hose

Rubber hose for spraying purposes. Made especially to withstand action of poisonous solutions. We carry an excellent grade, and furnish any length desired.

188B2140—1/2 in., 3-ply hose. Will stand up to 100 lbs. pressure. Wt., 50 ft., 6 lbs. Price, per foot......70

188B2142—1/2 in., 3-ply. Will stand up to 130 lbs. pressure. Wt., 50 ft., 3 1/2 lbs. Price, per foot......90

188B2144—3/4 in., 6-ply. Will stand up to 250 lbs. pressure. Weight, 50 ft., 11 1/2 lbs. Price, per foot.....12c

## Pipe Extensions For High Tree Spraying

188B2150—1/2 in. Black iron pipe; length, 4 ft. Threaded on both ends. One coupling. Price......20c

188B2152—1/2 in. galvanized iron pipe; length, 4 ft. Weight, 1 1/2 lbs. Threaded on both ends. One coupling. Price......25c

188B2154—Brass Rod Extension. 1/4 in. Length, 3 ft. With coupling. Weight, 4 oz. Price.....40c

188B2156—Shut-off or Stop-cocks. Made of brass. Threaded at both ends to receive 1/4 in. pipe. Wt. 5 oz. Price......35c

## Bamboo Extension Pipe Brass Inner Tube

For tree spraying, when extension is necessary, nothing more desirable than the brass lined bamboo pipe. Furnished in 3 foot lengths only, complete with brass shut-off, nozzle connection at end, and drip plate, preventing drippings from the tree or nozzle from running down the rod. This feature is especially desirable. Standard 1/4 in. thread. Shipping weight, 5 lbs.

188B2160—Price, 8 ft. size, complete.....\$1.90

## Climax Long Tube Sifter

For Applying Dry Insecticides to Plants

This sifter is made to fit the hand and long enough to reach into the vines without stooping. The perforated end is also a scoop. Can be removed and used to fill the tube with the dusting material to be applied to the plants. Made of heavy tin. Length, 26 1/2 in. Capacity, dry powder, 1 pound. Shipping weight, 12 ounces.

188B2225—Tube Sifter. Price.....40c

## Handy Blow Torch

For exterminating the Tent Caterpillar on fruit or shade trees. Made of solid brass, including Brass Pump for compressed air. Operates with Gasoline.

Useful for many other purposes, such as soldering cans, pails, or other articles made of tin. The steady, hot blue flame can be controlled at the will of the operator and directed so accurately that worms' nests can be quickly cut out of trees, burned up entirely, or dropped to the ground where the worms may be crushed without injuring the trees. Set on a pole the torch may be carried to the highest limbs of trees. Holds 1 pint. Will burn for about 2 hours. No pole furnished. Shipping weight, 1 1/2 lbs.

188B2230—Handy Blow Torch. Price.....\$1.95

## Funnel Strainer

Funnel and Strainer combined. For straining spraying mixture into barrel. The funnel is made of heavy black tin and the strainer of brass strainer cloth. Diameter at top, 9 in. Diameter at spout, 2 in. Depth, 7 in. Shipping weight, 1 lb.

188B2235—Price, each.....60c

## Standard Fly and Germ Killer

Protect your Cattle and Horses from the torture of flies during the Summer months. Invaluable at Milk time.

A liquid preparation for protecting stock from the torture of flies, and for exterminating germs and insects on poultry, hogs, and other stock. It is a thorough disinfectant and germicide, and harmless to the stock. Spraying lightly twice a day will keep flies off both horses and cows alike and relieve them from the worry of pestering insects. Directions for use with each can. Can be used with any of our sprayers. Put up in one gallon cans only. Not mailable.

188B2214—Per gal. can, boxed. Shipping weight, 10 lbs.....68c

188B2220—6 one gal. cans in case. Shipping weight, 60 lbs. Price, per case \$3.65

932 MONTGOMERY WARD & CO. CHICAGO

932 MONTGOMERY WARD & CO. CHICAGO

Take care of the orchard—There's where the profit is—Drug Section

932 MONTGOMERY WARD & CO. CHICAGO



# Climax Power Spray Rig, Pump, Engine and Belt

A simple, sturdy outfit to be used with any tank

Can be mounted on any farm wagon

Nearly every buyer wants a spray rig fitted up his own way. With the Climax you can order hose, nozzles, extension rods and other accessories to suit your ideas, and fit up the Climax Power Spray Rig in just the way you want it.

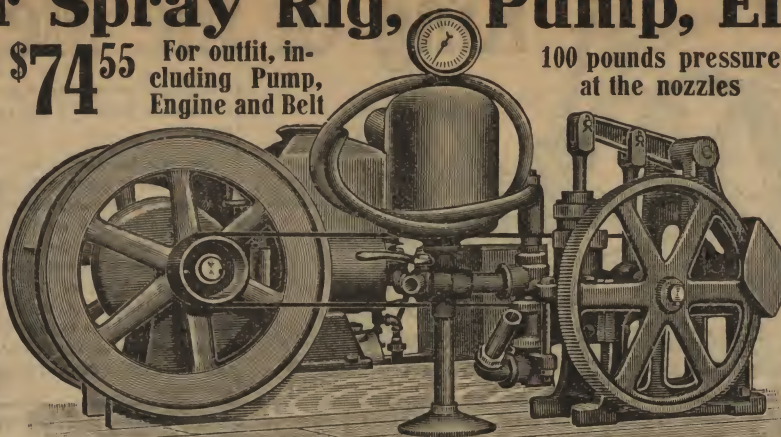
**PUMP SPECIFICATIONS:** The Climax Power Spray Pump has a single acting cylinder, diameter, 2 1/2 in., stroke, 3 1/2 in. The piston or plunger is a bronze casting, and is outside packed. It has bronze ball valves and bronze valve seats, both valves and seats being easy to get at by removing two bolts. The large air chamber can be removed for cleaning without the use of special tools. Main frame and gears are made of semi steel. Gears have machine cut teeth and run smoothly and with very little noise. Pump is equipped with a brass ball relief valve which returns excess liquid to the tank when the desired pressure is reached. Cast iron drive pulley, diameter, 6 in., face, 4 in. Pump is furnished complete with air chamber, pressure gauge, relief valve, 8 ft. of 1 in. suction hose, 5 ft. of 3/4 in. relief hose, and two-way discharge cock. Shipping weight, about 110 lbs.

For outfit, including Pump, Engine and Belt

100 pounds pressure at the nozzles

With a one horse power engine, pump will supply two large nozzles and keep up a pressure of 100 lbs. at the nozzles

With a two horse power engine, pump will supply four large nozzles with 100 pounds pressure or two nozzles with 200 lbs. pressure



**Engine.** The illustration shows our one horsepower, water cooled, Dairy Maid engine, which is sufficient to operate the pump and supply two large nozzles with 100 lbs. pressure. Engine weighs about 225 lbs. For complete description see engine pages. The outfit, as shown, measures: width, 34 in., height, 26 in., length, 5 ft. Shipping weight, complete, about 340 lbs.

**188B2300**—Climax Power Spray Pump with air chamber; pressure gauge; relief valve; two-way discharge cock; 8 ft. of 1 in. suction hose; 5 ft. of 3/4 in. relief hose; and one 6 in. pulley. No discharge hose or nozzles. Shipping weight, about 110 lbs. Price.....\$46.00

**188B4975**—1 H. P. Dairy Maid engine; shipping weight, about 225 lbs. Pulley, 6 in.; speed, 500 R. P. M. Price.....\$27.75

**188B2303**—8 ft. four-ply canvas belt; width, 3 in.; weight, about 4 lbs. Price.....\$80c

**188B2305**—Complete outfit, including Pump, Engine and Belt. Price.....\$74.55

For discharge hose, nozzles, extension rods, and other fittings, see opposite page.  
For 2-horse Engine to operate Pump with four nozzles, see Engine pages.  
Shipped promptly from stock at Chicago.

## Climax Hand and Power Pumps

Hand Pump for Spraying Hand Pump is surprisingly easy to operate. The long leverage of handle and convenient position enable operator to keep up pressure with less exertion than with many pumps not half so powerful.

Power Pump can be operated by any small engine of one horse power or more.

Has 2 1/4-in. brass cylinder, 5 1/2-inch stroke. Solid brass ball valves and removable brass valve seat. Large auxiliary iron air chamber. An excellent high pressure pump for orchard work. Adapted for all kinds of spraying, whitewashing, etc. Will handle any kind of liquid that can be formed into spray.

A low priced and exceptionally powerful spray pump with large tanks, adapted for orchard work. Can be operated either by hand or belt power.

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## Climax Barrel Spray Outfit

Compact and durable spraying outfit for hand use that does as good work as many of the big power sprayers mounted on runners or wheels. Easily transported with one horse. The right outfit for small orchards. Low-down, high pressure hand pump outfit.

The Climax Outfit will do a great amount of spraying. Constructed to be practically free from trouble. The pump is on the outside. Outfit is exceptionally strong and durable. Built to give long service.

**THE PUMP** is double acting, with 3-in. brass-lined cylinder, brass valve-seats, brass piston rod, and packing nut. Tested to a pressure of 150 lbs. Can readily be removed to use for other purposes.

**BARREL** holds about 48 gal. Has galvanized steel mechanical agitator with dashers that actually churn the solution at the bottom of barrel so that there is no danger of sediment settling.

**SLED AND TRUCK** are framed in and bolted together. The barrel is bound to frame at both ends with strong iron bands. Suction pipe extends down close to bottom of barrel and is fitted with copper strainer. Hose is 3/4-inch specially made for spraying purposes.

With the 10 ft. extension pipe the tallest fruit trees can be thoroughly sprayed. The large capacity of the pump necessitates only a few strokes of the handle to put the solution under high pressure, and continues the spray several minutes after the pumping ceases.

**288B2320**—Outfit mounted on runners. Complete, with 20-ft. hose; one each spray, sprinker and solid stream nozzle; one 10-ft. extension pipe, with brass handle stop cock. Wt., 220 lbs. Price.....\$19.50

**288B2322**—Outfit mounted on trucks in place of runners. Transported by hand or with one horse. Otherwise exactly the same as above. Shipping weight, 270 lbs. Price.....\$25.50

Shipped from factory in Indiana.

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Shipped from factory in Indiana.

\$19.50

On Runners

\$25.50

On Wheels

## Climax Heavy Barrel Sprayer

For big capacity, easy operation, continuous spray, you need our CLIMAX. Strictly high grade. New for 1916. Retail at \$16.00. Price \$11.90

Brass Cylinder, 2 1/4 inch diameter, Brass Ball Valves and Valve Seats, Paddle Agitator, Combination Adjustable Base Plate, for Attaching to Either Side or Head of Barrel.

For Large or Small Orchards, Vineyards and Shrubbery, For Whitewash or Cold Water Paints

Our New Climax Double Acting Sprayer has proven a great favorite among the fruit growers on the Pacific Coast, who are the most critical orchardists, and insist upon having the best machines. Has all the elements of long-wearing construction.

Is easily cleaned. Double acting, making a continuous spray. Considering the large capacity, it is easily operated. Will readily supply two leads, or nozzles, and much easier than the big, cumbersome pumps that are made mostly of cast iron.

Diameter of cylinder, 2 1/4 in. submerged, requiring no priming. By removing two bolts the valve is accessible, making the pump easily and quickly cleaned. The stroke on lever handle is adjustable by removing one bolt, brass. It will give long service.

Regular equipment consists of 15 feet of 3/4-in. high-grade hose; one brass Y, so that two leads can be used, if desired; adjustable base, or barrel plate, with removable cap for filling without removing pump, and to attach to either side or head of barrel; adjustable handle for long or short stroke, paddle agitator working on every stroke of the pump handle; and Vermorel nozzle, with long stem for coarse or fine spraying. (Bordeaux nozzle for whitewashing extra.) Shipping weight, complete, boxed, 76 lbs. (Barrel not furnished.)

**188B2340**—Price, complete, with one lead of hose.....\$11.90

**188B2342**—Price, complete with two 15-ft. leads of hose and nozzles.....\$14.60

**188B2176**—Bordeaux Nozzle. For whitewashing, or cold water paints. Shipping weight, 4 oz. Extra.....\$48

Shipped from factory in Indiana.

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\$11.90

On Runners

On Wheels

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## Newcomer Barrel Spray Pump

Double-Acting, Brass Nozzles, Brass Cylinders, Brass Valves, Brass Valve Seat, Paddle Agitator. Easily and quickly attached to any barrel. Patterned after and with all the qualifications of high grade barrel pumps that sell at retail for \$12 to \$15.

For various kinds of spraying, including orchards, vineyards, shrubbery, or for whitewashing dairies, poultry houses, etc.

All working parts are submerged in a liquid and require no priming. The pump is made of heavy brass. All valves and valve seats are made of good quality brass and will not corrode or rust.

It is fitted with a paddle agitator connected to pump rod and operates with movement of the pump handle. An excellent agitating device.

One lead of 3/4-in. hose furnished regularly.

Vermorel nozzle has two caps, one for fine and one for coarse spraying. (Two leads can be attached to pump by use of Y and extra hose.)

Shipping weight, boxed, 42 lbs.

**188B2348**—Price, complete with 5 ft. hose.....\$6.20

**188B2350**—Price, complete with 15 ft. hose.....\$7.35

**188B2352**—Brass Y attachment for two leads. Weight, 2 lbs.....\$0.75

**188B2354**—Extra lead hose 5 feet complete with nozzle and connections. Shipping weight, 3 lbs.....\$1.35

**188B2356**—Four-foot iron pipe extension for tree spraying with coupling. Weight, 2 lbs. Each.....\$0.20

Shipped from factory in Indiana.

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\$6.20

Complete with hose Prompt Shipment

## Reliance Barrel Spray Pumps

Made by one of the largest and best known manufacturers of pumps. Complete, with Hose, Nozzle, Strainer and Agitator.

DOUBLE ACTING BRASS UPPER CYLINDER. BRASS LINED LOWER CYLINDER. CANVAS PACKED PLUNGER. No rubber or leather valves used. Is easy to operate and very powerful. Will throw an even, mistlike spray over small fruit trees. Especially adapted for orchards, gardens, and vineyards. Furnished with two discharge nozzles, one on each side. One or both may be used for spraying. Base is shaped to fasten to either side or head of barrel. Has liquid agitator and Vermorel spray nozzle, having two caps, one for fine and one for coarse spraying. No barbs or regularly furnished. Shipping weight, 30 lbs.

**188B2326**—Price, with one 5-ft. lead of hose.....\$6.35

**188B2328**—Price, with one 15-ft. lead of hose.....\$7.45

**188B2330**—Extra 5-ft. lead hose, complete with nozzle and couplings. Shpg. wt., 3 lbs.....\$1.35

**188B2332**—Extra 15-ft. lead hose, complete with nozzle and couplings. Shpg. wt., 15 lbs.....\$2.30

**188B2176**—Bordeaux nozzle for whitewashing. Shpg. wt., 4 oz.....\$48c

Shipped from factory in Indiana.

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5-Ft. \$34<sup>75</sup> Cut 6-Ft. \$35<sup>75</sup> Cut

**Steel-Forged Knife-Head Plates**

Tested alongside the best known makes. Thoroughly tried on even and uneven ground, in heavy and light grass, and under all conditions. Will give you satisfactory and long service. Adjustments for tilting, raising and lowering that adapt it to even or uneven ground, or any kind of grass.

**One-Piece Cast Frame**  
Babbitted Pitman Box with Thumb Screw Oilier

## Construction

The 30-inch Cast WHEELS are very strong, but as light as can consistently be made and still retain sufficient strength. Width of face of wheels, 4 1/2 in., with anti-slip mud lugs. The main axle is cold rolled steel. Width between wheels, 41 inches.

FRAME is 1 piece. Shafts cannot get out of alignment. Crank shaft has brass bushings at each end that can readily be removed, and replaced with new ones when worn. Pitman, made of clear selected, seasoned hickory, will not bend or spring in heavy work, like a steel rod. Ball and socket connection at knife-head. Socket connections steel forged. Malleable pitman box, with babbitted bushing and thumb screw oilier. Pitman straps are forged steel.

The above combination has proven, on thorough test, to be the best wearing, strongest and most satisfactory combination in any mower. The babbitted pitman box will wear out a brass box, will not cut like brass and when worn can be replaced at much less expense.

## Climax Windrower and Buncher

\$8.60 to \$11.00



Especially adapted for clover, flax, alfalfa, peas, etc. Will attach to any mower without boring a hole in cutter bar. For windrowing it delivers the cut crop out of the way of team for next round. Our Windrower and Buncher ought to be in the possession of every farmer raising clover, flax, alfalfa, peas, or any similar crop. A few days' use will easily pay for it. It gathers only the crop that the mower cuts, avoiding the dead grass and weeds that a rake picks up. Any crop can be bunched or windrowed as desired. The buncher gate is necessary for bunching. The gate is attached to seat spring and operated with a foot trip and can readily be removed entirely when windrowing. The gates are quoted extra as some farmers have no use for them.

Bunchers made of flat, high carbon steel rods adapted especially for this purpose. Attaches to the extra bar with three clips to the guard bolt. Space between gates is 3 inches. Made in four sizes, to fit 4 1/2, 5, 6 or 7-ft. mowers.

	At Warehouse	Factory house
288B2416—4 1/2-ft. size. Shipping weight, 70 lbs.	\$ 8.60	
288B2418—5-ft. size. Shipping weight, 75 lbs.	8.85	\$ 9.10
288B2420—6-ft. size. Shipping weight, 80 lbs.	10.10	10.40
288B2422—7-ft. size. Shipping weight, 85 lbs.	11.00	
288B2424—Buncher gate for any of the above sizes. Wts., 15 to 25 lbs. (Size size.)	\$2.20	
Shipped from factory in Southern Minnesota or 5 and 6 ft. sizes with Mowers from Warehouse near Chicago.		

## Climax Hay Loader, \$43.00

The Old Reliable Rake Bar Style. For swath or windrow. Perfectly balanced. Automatic wagon hitch. Especially adaptable for swaths and light windrows, as it takes the hay clean from either, is smooth running, with gear drive. Draft beams are clear oak with yellow hard pine in other parts where strain is not so heavy. Has one piece crank shaft, the main axle encased in 4 in. wood casing full length, that prevents sagging or springing. Gear is always in proper mesh, with little danger of breakage. Frame is entirely of hardwood, thoroughly seasoned. Wheels have heavy tires with lugs that prevent slipping. Has 8 complete with lugs that prevent slipping. Has 8 complete with lugs that prevent slipping. Has 8 complete with lugs that prevent slipping.

No. 1 RAKE BAR. Has one piece crank shaft, the main axle encased in 4 in. wood casing full length, that prevents sagging or springing. Gear is always in proper mesh, with little danger of breakage. Frame is entirely of hardwood, thoroughly seasoned. Wheels have heavy tires with lugs that prevent slipping. Has 8 complete with lugs that prevent slipping. Has 8 complete with lugs that prevent slipping. Has 8 complete with lugs that prevent slipping.

288B2434—Climax Hay Loader. Shipping weight, 1025 lbs. Price \$43.00. Shipped from factory in Ohio.

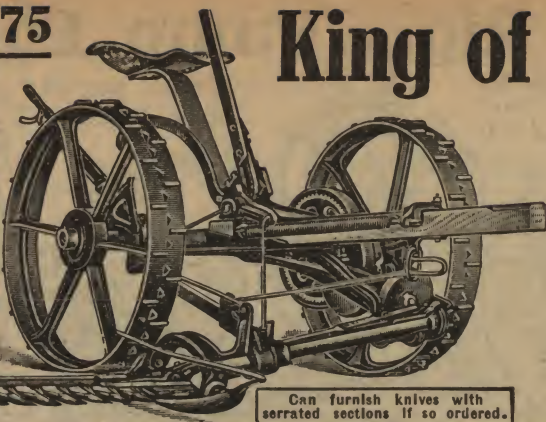
## Climax Power Sickle and Disc Grinding Head

Will save lots of labor and repair bills on the farm—Can be operated by any small gasoline engine—For Mower Sicks, Harrow Discs and Tools.

Operates at 1600 rev. with 1 1/2 H. P.

Has Disc Holder for grinding Harrow and Plow Discs 14 to 18 in. diameter. Bolts to bench or table. Simply constructed, and accurately machined. 1/2 in. main shaft is machined steel. Bearings slotted in rear to provide a take-up, and have oilers. Two disc or tool grinding wheels furnished, each 5 1/2 in. diameter, 1 1/2 in. thick; one coarse grit; and one fine grit; also one bevel, or sickle grinding wheel, diameter in center, 6 in., tapering to 4 1/2 in.; 3/4 in. thick at the ends. Knuckle-jointed tool rests, may be set at any angle; a sickle, or mower knife holder and disc sharpening attachment. Complete to do all your farm grinding. Ship. wt., 36 lbs. Complete with sickle and disc holders, two tool and one bevel stone. 188B2480—Price \$6.75

934 MONTGOMERY WARD & CO. CHICAGO



Can furnish knives with serrated sections if so ordered.

MAIN GEAR has an outside guard. Other gears are enclosed. Ratchet wheel to throw in or out of gear can be operated by hand or foot. Gears, knives and wheels start at almost the same instant.

NO LOST MOTION. Outer shoes fitted with wheel, can be adjusted to cut high or low. Levers within easy reach of operator. Foot Lift, to raise bar without using hand lever. Serrated guard plates. Wearing plates and clips

Regular equipment consists of neck yoke, doubletrees, one extra knife, one extra section, one extra guard, wrench, one punch, one cold chisel and one oil can. Shipping weights, 5 ft., 645 lbs.; 6 ft., 665 lbs.

288B2400—King of the Meadow Mower, 5 ft. cut. Price	\$34.75
288B2402—King of the Meadow Mower, 6 ft. cut. Price	35.75
288B2404—Extra guards, with guard plate. Weight, 1 lb. Price, each	.20
288B2406—Extra sections, with rivets. Weight, 2 oz. Price, each	.04

Shipped from Warehouse near Chicago.

When you purchase our King of the Meadow, you can be sure of a big saving over retail prices.

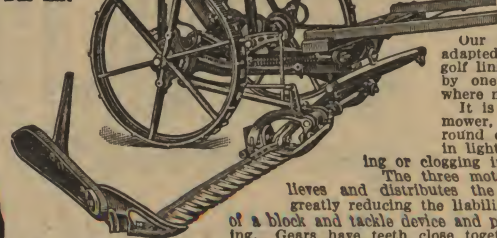
For over ten years there has been a continued effort to improve, and wherever possible to overcome, any objectionable or weak features. We are now convinced that our King of the Meadow will not take second place to any other mower in light or heavy grass, even on uneven ground, or in lightness of draft. Seat is behind the cut, convenient to the levers and placed so as to balance the weight on the wheels and not on the horses' necks. Seat is adjustable either forward or backward to suit the driver.

Our prices mean a saving to you of \$10.00 to \$25.00 over retail prices, depending on your location. This saving is easily accounted for in the expense of salesmen, canvassers and middlemen, which you pay when you purchase at retail. We eliminate all this expense. Only one profit. The mower comes from the factory to you. The King of the Meadow is not a new mower or an experiment in any way. There are over 18,000 of them in satisfactory use. We believe that it is equal to any other mower made, regardless of make or brand. When you purchase it, you can rest assured that it will satisfy you, that it will do as good work, under corresponding conditions, as any other mower.

No mower made requires less renewals or repairs. Renewals or repairs can be had at any time. Do not let anyone mislead you on this point. We can furnish repairs promptly whenever needed.

\$32<sup>90</sup>

Hand and Foot Cutter Bar Lift



Our Climax One-Horse Mower is especially adapted for very small farms, for country clubs, golf links, parks, etc. It can readily be handled by one good horse under average conditions, where not too hilly.

It is geared a little higher than the average mower, the sickle making 54 strokes to one round of the drive wheels, adapting it for use in light weeds, with very little danger of choking or clogging in regular grass cutting.

The three motion gear is a desirable feature that relieves and distributes the strain of sudden starting or stopping, greatly reducing the liability of breakage. It works on the principle of a block and tackle device and permits high speed of sickle without straining. Gears have teeth close together and strongly reinforced so that they respond instantly to the movement of the machine, practically eliminating lost motion.

Ratchet to throw in and out of gear operated by hand or foot. Hand lever lift, also foot lift to raise cutter bar. Crank shaft is fitted with brass bushings at each end. Hickory pitman with forged steel connection. Malleable iron pitman box with babbitted linings—longer wearing and less expensive to replace than brass.

Diameter of drive wheels, 30 in., with 3 in. face. Furnished with shafts and singletree for one horse. Made in one size only, with 3 1/2 ft. cutting bar. Shipping weight, 550 lbs.

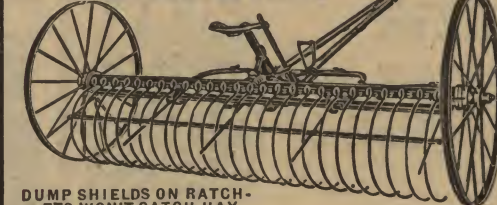
288B2440—Climax One-Horse Mower, 3 1/2 ft. cut. Price \$32.90

## Climax One-Horse Mower

High Geared, 3 1/2 Foot Cut. Three Motion Gear. Brass Bushings on Crank Shaft. Malleable Iron Babbitted Pitman Box. Easy Running. Balanced Frame

## Bob White Hay Rake

8 Ft. \$18.20 10 Ft. \$20.25 12 Ft. \$24.25



TRUSSED HEAD. NO SAGGING

DUMP SHIELDS ON RATCHETS WON'T CATCH HAY

and do not tear up the grass or rake rubbish. Teeth are fastened to head by clamps. No holes to weaken head.

The labor of discharging the hay, as well as of gathering it, is done by the horse. To dump it, the driver simply presses his foot against the foot treadle and the teeth rise of their own accord, and discharge and return with an easy swing without jarring. Can also be dumped by hand lever.

Three sizes, 8, 10 and 12 ft. Fitted with combination pole and shaft so that you can use one or two horses. Can be easily changed in a few minutes.

Art. No.	With 1/2 in. teeth	With 3/4 in. teeth	Size Rake	No. Teeth	Ship. wt. with 1/2 in. teeth	Ship. wt. with 3/4 in. teeth
288B2460	\$18.20	\$19.70	8 ft.	24	430 lbs.	440 lbs.
288B2462	20.25	21.95	10 ft.	26	460 lbs.	472 lbs.
288B2464	24.25	26.25	12 ft.	32	500 lbs.	515 lbs.

Shipped from Warehouse near Chicago.

## All Steel Double Hub Bicycle Wheels

Self-Dump—Hand-Dump—Foot-Dump 3/4 in. or 1/2 in. Teeth

For one or two horses. Will do perfect work in either heavy, light or tangled hay, alfalfa or clover, and no other rake will do better in cornstalks.

WHEELS—Double-hub, 54-inch bicycle wheels, each with 16 half-inch staggered spokes, and with heavy 2-inch channel steel tires.

FRAME—Made of high carbon angle steel, thoroughly braced, bolted and riveted. Head is strengthened with a truss rod.

TEETH—Are high quality oil tempered, high carbon steel, with great strength and elasticity. Rakes listed below with 3/4 or 1/2 inch teeth. The 1/2 inch are recommended for extra heavy work, rough ground or corn stalks. Points are flattened sledge runner shape and fastened to head by clamps. No holes to weaken head.

The labor of discharging the hay, as well as of gathering it, is done by the horse. To dump it, the driver simply presses his foot against the foot treadle and the teeth rise of their own accord, and discharge and return with an easy swing without jarring. Can also be dumped by hand lever.

Three sizes, 8, 10 and 12 ft. Fitted with combination pole and shaft so that you can use one or two horses. Can be easily changed in a few minutes.



Considered one of the easiest adjusted hand sickle grinders on the market. Grinding wheel revolves 25 times to one turn of the crank. Adjustable clamp at bottom, to conveniently attach to wheel on harrow or mower, for sickles; and to bench or table, for grinding tools. Mower Knife Holder adjustable as desired, and firmly holds the mower knife with two guides or rests, adjustable for any width or thickness of knife backs. Spring clamp allows shifting of the knife to any position while grinding. The weight of knife is carried by the holder and the operator has full view, and easily controls the pressure and governs the grinding of nicks, gaps and any width or length of bevel.

Grinding wheels are vitrified corundum, one of the hardest, sharpest and fastest cutting materials. Price includes one sickle or bevel wheel, one tool wheel, diameter, 4 1/2 in. face 1 1/2 in., one tool rest and mower knife clamp. Shipping weight, boxed, 17 1/2 lbs.

188B2490—Price \$2.25

## Climax Hay Buncher

\$5.50 to \$5.90

ESPECIALLY DESIGNED FOR PRAIRIE GRASS AND SUITABLE FOR BUNCHING ALL KINDS OF GRASS OR GRAIN. ATTACHES TO ANY MAKE OF MOWER WITHOUT BORING A HOLE. ADDS BUT LITTLE WEIGHT TO THE MACHINE. SPRING STEEL PICK-UP BARS.

Very popular in Western States, and largely used in cutting the very short hay which cannot be picked up with the rake, or where a windrower cannot be used. Many in use in the cattle ranching sections, to gather the short hay in bunches for stock to feed on during the winter months. It avoids the lodged dead grass and weeds that a rake picks up, and the grass retains more nourishment and color than when gathered with a rake. Foot lever on hopper convenient for operator to easily dump. Light and easy to operate. Space between bars, 2 1/2 in.

288B2445—To fit 4 1/2 ft. Mower. Shipping weight, 40 lbs. Price	\$5.50
288B2447—To fit 5 ft. Mower. Shipping weight, 45 lbs. Price	\$5.70
288B2449—To fit 6 ft. Mower. Shipping weight, 50 lbs. Price	\$5.80
288B2451—To fit 7 ft. Mower. Shipping weight, 55 lbs. Price	\$5.90

Shipped from factory in Southern Minnesota.

## Made of Sound Seasoned Hard Pine

The kind used so largely in the Middle West.



Made after the patterns of the Original Champion type that has such great popularity and has given such excellent satisfaction. Superior to many other styles of overshot stackers, and one of the best of its type made.

THE CHAMPION makes a solid and nice appearing stack. The load is delivered to the center and the constant pounding tends to bind the center so that there is no settling afterwards, excepting at the ends, which tends to shape the stack.

THE LIFT at the start being nearly directly over load makes an easy start, and changing as the load rises keeps the pull at nearly right angles to the load at all times.

The pull rope being fastened in the center at the top makes a direct pull, reducing friction to a minimum. The extension rods extending from top of derrick to outside arm balance the load and prevent tipping where it is heavier on one side than the other. Also has side braces on the arms, which prevent swaying when the load reaches the top. Can be adjusted to elevate from 12 to 17 ft. in height. Has recoil spring, which gives the pitching effect when discharging the load on the stack, also serves the purpose of cushioning the stop and starting the head on its return trip to the ground. Shipping weight, about 730 lbs.

288B2474—Price \$31.00. Shipped from factory in Missouri.

## Climax Two-Wheel Sweep Rakes

The kind sold by dealers under other name at nearly 50 per cent over our prices.

No. 1—Spring pivot tongue. Metal pointed teeth. Made of carefully selected hard pine throughout, carefully dried and seasoned. Made in two styles, the No. 1 having short steel axles and the No. 2 long tubular axles extending the length of rake. Both sizes are regular 12-ft. rakes measuring 11 ft. 8 in. across points of teeth. Easily handled, well balanced, and will stand as much hard work as any similar rake. Ship. wts., No. 1, 350 lbs.; No. 2, 360 lbs.

288B2500—No. 1 with short steel axles and singletrees \$13.25

288B2502—No. 2 complete with full length tubular axle, extra strong, well made steel wheels and singletrees. Price \$16.20

Shipped from factory in Missouri.

## Climax Four-Wheel Buck or Sweep Rake

—Strong and durable. Excellent lever control. Full length pipe axle. Made of hard pine, well seasoned and carefully selected teeth and frame. Fully equal in strength, durability, and easy lever operation, to any other rake you can buy. Used in nearly all of the alfalfa sections of the West. Superior to many well known makes, especially in the lever arrangement which allows the operator to handle the shocks with less labor on self and team. We recommend it especially in heavy crops. Has full length pipe axle; is mounted on 18 in. diameter main wheels with wide tires, castor wheels in rear. Removable boxing easily replaced when worn. Width, 12 ft., length of teeth, 8 ft., metal pointed. One extra tooth, a singletree and wheel shields furnished with each.

288B2510—Price, complete. Shipping weight, 750 lbs. \$24.25

Shipped from factory in Missouri.

The farmer's friend—our Lakeside Fence Plier. See Index.

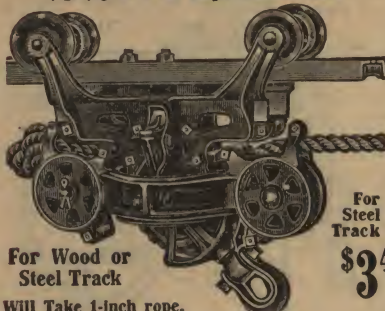
MONTGOMERY WARD & CO. CHICAGO 934



# Hay Handling Tools for Barn and Field

## New King Large Mouth Hay Carriers

3/4, 7/8 or 1 in. Rope can be used



For Wood or Steel Track

Will Take 1-inch rope.

Double Swivel. High-grade malleable iron. Can be used with 1-inch rope or smaller.

Special features of our New King: Large, open mouth, allowing fork pulley head to pass well up into car; strain of lock device placed where carrier is strongest, avoiding friction or twisting strain; fork being close to track permits filling space to high point. Large mouth insures receiving fork pulley with load instead of frequently missing, as happens with small mouth carriers.

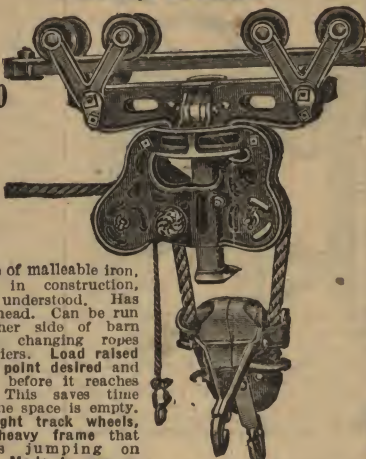
Rope sheaves take 3/4 in., 7/8 in., or 1-inch rope, but we do not recommend larger than 7/8 in., on account of being less pliable and therefore added friction. Fork pulley has loop head, insuring sure lock, and clevis to attach fork. Made in two styles, for regular 4x4 in. dressed wood track, or to run on our Champion steel track. Carrier furnished with pulley for fork and stop. Without rope. Shipping weight, 37 lbs. each.

188B2600—New King carrier for wood track. \$3.45  
188B2601—New King carrier for steel track. 3.45  
188B2622—Sling pulley to use wagon slings. Shipping weight, 13 1/2 lbs. \$1.60

## New Sampson Swivel Sling Carriers

For 7/8 or 1-inch Rope  
3/4-inch Rope Not Suitable

\$5.80



Made of malleable iron, simple in construction, easily understood. Has swivel head. Can be run on either side of barn without changing ropes on carriers. Load raised to any point desired and tripped before it reaches stop. This saves time when the space is empty. Has eight track wheels, extra heavy frame that prevents jumping on track. Made to run on either wood or steel track. Picture shows steel track carrier. Wood track carrier is exactly the same in construction, except longer top frame to accommodate 4x4 dressed wood track. Prices include pulleys and stop, but not rope.

188B2610—Steel Track Carrier. Shipping weight, 67 lbs. Price, \$5.80  
188B2612—Wood Track Carrier. Shipping weight, 73 lbs. Price, \$5.85

## Champion Wood Track Carriers

\$2.90



\$2.90

Swivel Head, Automatic Trip, No Springs. Made of Malleable Iron. Swivel carrier to run on dressed 4x4 in. wood track. Made entirely of malleable iron. Fork trip works automatically on its own weight, requiring no springs. Positive lock. Working parts are close to the track and making them work easily under load. Will work either way from stop without drawing rope, by turning the swivel head. All carriers fitted and tested before leaving factory. Fork pulley with clevis and trip or stop always furnished. (No Rope.) Shipping wt., 32 lbs.

188B2616—Price, complete, \$2.90  
188B2618—Extra wood track trip or stop. \$-.20

## Champion Cable Carrier

3 Track Wheels—Reversible



\$2.90

Extra Strong. Trips Automatically. Sure Lock.

For Stacking Outfits or in barns where a rod or cable is used in place of wood or steel track.

For stacking hay in the field, is exceptionally strong, guides perfectly and the F H E C A B L E WHEELS make it strong against rough usage as well as leveling the cable so that it never misses the stop. Has the Champion automatic trip without springs, is made of malleable iron and will work either way from the stop without turning on the cable. Furnished with stop to fit either 1/2, 3/4 or 5/8 in. cable. (Fork pulley with clevis always furnished. (No Rope.) Shpg. wt., 30 lbs.)

188B2625—Price, with trip or stop for 1/2-in. cable. \$2.90

188B2627—Price, with trip or stop for 3/4 or 5/8 in. cable (state which) \$3.00

## Champion Steel Track Carrier

Swivel Head, Positive Lock, Ready Trip



\$2.95

Automatic Trip, No Springs to Get Out of Order

You will usually pay \$4.00 at retail for similar carriers. Made to run on our angle steel track. Composed of two 1-inch high carbon steel angles coupled together and 2 1/2 in. width. Made of malleable iron. Weight properly divided. No weak parts. No parts to wear out. No repairs. Works easily under a load, on account of large track wheels and close working parts. Has automatic trip with no springs to get out of order. Positive lock. Easily understood and not complicated in any way. Rope head works on swivel so that carrier will work on either side of stop without drawing the ropes. Fork pulley with clevis and stop or trip always furnished. (No Rope.) Shipping weight, 32 lbs.

188B2630—Price complete \$2.95

188B2632—Extra steel track trip or stop. Wt., 4 lbs. \$-.20

## Sling Pulleys



For our Champion or New King, steel wood or cable track carriers. Used with our Western or Standard Hay Slings. No rope furnished. Positive lock with the heaviest loads. Shipping weight, 13 1/2 lbs. Malleable iron. 188B2620—For Champion Carriers. With rivet head as shown at the left. Price \$1.40  
188B2622—For New King Carriers. With loop head as shown to the right. Price \$1.60

## Complete Barn Haying Outfits

Our Haying Tools are made in two of the largest hay tool factories in the world. Every article mentioned in connection with our outfits is standard—that is, just the same as sent out by these same manufacturers direct to jobbers and dealers all over the country.

We have arranged these outfits for the accommodation of our customers, not only to save them time and trouble, but also for those who do not know just what an outfit consists of. If you desire these changed in any way, be very careful to add to the price of the outfit, or deduct from it, as you change the number of items, otherwise your order must be held to write you further.

We have, however, arranged them in the best possible manner, saving you as much as we possibly can, and at the same time giving you plenty of everything necessary.

The brackets and the hanger hooks are furnished to be placed on every other rafter, 2 ft. apart, as you so desire.

The steel track is made of 1-in. angle steel, 2 pieces held together with malleable clamps. Is cut in 10-ft. lengths with two 5-ft. pieces to each outfit to break joints at each end. The wood track is made of 4x4 in. timber. We do not furnish the poles supporting the cable track, but include all other parts as enumerated below. Length of cable, 150 feet.

50 feet to be strung between posts, and 50 feet on each end for guys. Outfit consists of 150 feet of 1/2-inch galvanized cable, 2 clamps for making loops around end stakes, 2 shoulder clamps to prevent posts from working inward, 2 bolts for securing posts together where they cross at top, 2 knot passing pulleys, 1 188B2710 double harpoon fork, 130 ft. 3/4-inch Manila rope, 75 ft. 3/4-in. check rope, 1 Champion 3-wheel cable carrier 188B2625.

188B2726—Ship. wt., 170 lbs. Price of above outfit \$11.40

188B2728—For 3/4-inch rope in place of 1/2-inch, add for each foot of 3/4-inch rope. 1c

For Prices on Manila and Sisal Rope of All Sizes, See Index for Pages



saving you as much as we possibly can, and at the same time giving you plenty of everything necessary.

The brackets and the hanger hooks are furnished to be placed on every other rafter, 2 ft. apart, as you so desire.

The steel track is made of 1-in. angle steel, 2 pieces held together with malleable clamps. Is cut in 10-ft. lengths with two 5-ft. pieces to each outfit to break joints at each end. The wood track is made of 4x4 in. timber. We do not furnish the poles supporting the cable track, but include all other parts as enumerated below. Length of cable, 150 feet.

50 feet to be strung between posts, and 50 feet on each end for guys. Outfit consists of 150 feet of 1/2-inch galvanized cable, 2 clamps for making loops around end stakes, 2 shoulder clamps to prevent posts from working inward, 2 bolts for securing posts together where they cross at top, 2 knot passing pulleys, 1 188B2710 double harpoon fork, 130 ft. 3/4-inch Manila rope, 75 ft. 3/4-in. check rope, 1 Champion 3-wheel cable carrier 188B2625.

188B2726—Ship. wt., 170 lbs. Price of above outfit \$11.40

188B2728—For 3/4-inch rope in place of 1/2-inch, add for each foot of 3/4-inch rope. 1c

For Prices on Manila and Sisal Rope of All Sizes, See Index for Pages

## Rafter Brackets

Made of Malleable Iron



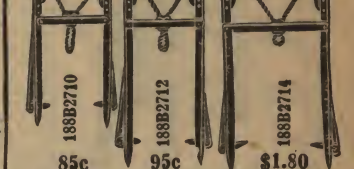
2c each

For use in hanging track. No screws or nails furnished. Requires 3-d nails. Wt., 5 oz.

188B2705—Price \$2c

## Double Harpoon Hay Forks

Three sizes for handling all kinds of hay



From one of the best known and largest hay tool manufacturers. Wrought steel, standard in weight, size and construction. Perfectly fitted and painted.

188B2740—The kind commonly used. Has times 25 in. long from cross bar; width, 17 in. Ship. wt., 16 lbs. Price, \$1.80

188B2742—Extra long time fork, having times 31 in. from cross bar; width, 17 in.; suitable for loose straw, alfalfa, etc. Ship. wt., 18 lbs. Price, \$1.85

188B2744—Extra heavy fork, especially adapted for handling alfalfa; has times 33 in. long from cross bar and width, 22 in. Ship. wt., 30 lbs. Price, \$1.80

188B2746—Extra heavy fork, especially adapted for handling alfalfa; has times 33 in. long from cross bar and width, 22 in. Ship. wt., 30 lbs. Price, \$1.80

188B2748—Extra heavy fork, especially adapted for handling alfalfa; has times 33 in. long from cross bar and width, 22 in. Ship. wt., 30 lbs. Price, \$1.80

188B2750—Price \$1.80

## Single Harpoon Fork

Wrought steel. Nells pattern, strong and durable. Illustration shows the fork open for raising a load. Length, 36 in. Ship. wt., 12 1/2 lbs.

188B2720—Price \$1.25

## Four Time Grapple Fork

For quickly handling hay in big quantities. All iron and steel and in every way strongly made. E a y trip; width, 17 in. Opens 4 1/2 feet. Shpg. wt., 35 lbs.

188B2750—Price \$3.25

## Six Time Grapple Fork

Especially useful in short hay, loose straw, and alfalfa. Width, 17 in. opens out 4 ft. 5 in. Shpg. wt., 51 lbs.

188B2755—Price \$3.85

## Champion Angle Steel Track

7c per double foot

Joint Clamps Included

Double Angle Steel Track, in 5 and 10-ft. lengths only; 5-ft. lengths used at ends to break joints. Made of 2 pieces of 1-in. angle steel rail, held together by Malleable joints and hook clamps. Shpg. wt., about 2 lbs. per foot. Hook clamps are extra. See No. 88B2766.

188B2762—Price, per double foot, including joint clamps only. \$7c

88B2766—Hanging Hooks for 4x4 in. wood track. Made of 1/2-in. wrought iron; length, 14 in. after bending. Weight, 12 oz. Each. \$5c

88B2768—For Champion steel track, complete with clamp; length, 8 1/2 in. Wt., 14 oz. Each. \$6c

## Rope Hitch, with Swivel

Easier than to tie and untie a knot. It can be attached at any place to make the proper length.

Prevents rope from twisting. Made of malleable iron. Wt., 1 1/2 lbs.

88B2776—Each \$1.20

## Snatch Pulley Block

Shortens one-half the travel of the horse. Requires more pull than a direct coupling. Malleable iron. Horse travels one-half distance. Rope can be thrown off. Weight, 5 1/2 lbs.

88B2766—Price, without rope, singletree or small pulley. \$40c

88B2768—Price, without rope, singletree or small pulley. \$40c

88B2770—Price, without rope, singletree or small pulley. \$40c

88B2772—Price, without rope, singletree or small pulley. \$40c

88B2774—Price, without rope, singletree or small pulley. \$40c

88B2776—Price, without rope, singletree or small pulley. \$40c

88B2778—Price, without rope, singletree or small pulley. \$40c

88B2780—Price, without rope, singletree or small pulley. \$40c

88B2782—Price, without rope, singletree or small pulley. \$40c

88B2784—Price, without rope, singletree or small pulley. \$40c

88B2786—Price, without rope, singletree or small pulley. \$40c

88B2788—Price, without rope, singletree or small pulley. \$40c

88B2790—Price, without rope, singletree or small pulley. \$40c

88B2792—Price, without rope, singletree or small pulley. \$40c

88B2794—Price, without rope, singletree or small pulley. \$40c

88B2796—Price, without rope, singletree or small pulley. \$40c

88B2798—Price, without rope, singletree or small pulley. \$40c

88B2799—Price, without rope, singletree or small pulley. \$40c



A very quick and satisfactory way of handling hay, straw, fodder, etc. Used in connection with our Champion or New King sling pulleys in place of hay fork. Cross bars are selected wood, good quality rope, with sure lock trip-lock. The Eye Bolts clasp around the rope instead of going through it. Lock trips easily.

Width of sling, 4 or 5 feet, and can be adjusted from 16 to 20 feet in length. If desired, by adding rope at the end rings.

188B2635—4-ft. Sling. Ship. wt., 18 lbs. Each \$1.60

188B2637—5-ft. Sling. Ship. wt., 22 lbs. Each \$1.90

188B2639—Extra Trip Lock, 1 lb. \$1.45

188B2641—Complete Set Sling Irons. (No woods, no rope.) Wt., 3 lbs. \$1.85

## Western Sling Net, 6-Foot Bars

\$2.90



Especially adapted for handling headed grain, short hay, sheaf oats, and regular hay in big quantities. The 5 crossed ropes on each section insure cleaner and more compact loads than the regular 2 rope Standard sling. Has malleable iron center trip lock, easily tripped; ropes attached to bars securely by hook bolts without weakening rope. Wt., 28 lbs.

188B2645—Price \$2.90

## Floor Hooks

For fastening pulleys to the floor. Wrought iron; ends pointed.

3/4 in. Diam., 3/4 in. Length, 8 1/2 in. threaded, 4 1/2 in.

88B2648—Weight, 1 lb. Each 6c

## Knot Passing Pulley

Has extra large knot passing head with swivel, 6-in. maple sheave, malleable iron frame which will not spring. Rope cannot get between the frame and the sheave or be cut on the edge of the sheave. Wt., 3 1/2 lbs.

88B2651—Price, each \$1.8c

## Hay Fork Pulley

Self-oiling after once greased. Has wood shell with inner steel frame and 5 in. maple sheave; wrought iron axle support; steel swivel eye. Very strong, durable and popular. Wt., 3 1/2 lbs.

88B2654—Price \$1.9c

## Hay Fork Pulley

Has removable center pin, swivel eye, iron frame with a heavy rib which adds great strength; 6-in. hard maple sheave; 1-in. self lubricating pin. Weight, 3 lbs.

88B2658—Price \$1.5c

## Clamps and Bolts

1 2 3 4

88B2780—No. 1. Double clamps for end loops for 3/4, 7/8 or 1 in. cable. (State which.) Weight, 12 oz. Each. \$8c

88B2782—No. 2. Post clamps to hold posts on stacking outfit. Wt., 12 oz. Each. \$10c

88B2784—No. 3. 12-inch post bolts with 2 washers and 2 nuts to bolt posts together. Weight, 2 1/2 lbs. Each. \$10c

88B2786—No. 4. 15-inch eye bolts for tightening cable. Wt., 2 1/2 lbs. \$12c

## Galvanized Wire Cable

Used for guy ropes, signal cords, fencing, etc. Made of seven wires twisted together. Not pliable enough for use through pulleys. The 1/2 in. is the same as with our cable outfits. Sold only in lengths of 50, 100 or 150 feet, but longer lengths can be shipped from factory.

Art. No. Diam. (inches) Breaking Strain (lbs.) Price per foot

188B2666 3/4 52 10,000 2c

188B2668 7/8 59 6,300 1 1/2c

188B2670 1 13 2,300 1c

Rope, hooks and brackets listed are furnished in same quantities with either wood or steel track outfits of equal size.

With 150 feet 1/2-inch galvanized cable for 50-foot stack. Complete outfit for hay stacking in the field, will make 50-foot stack. Longer stacks can be made by moving outfit. We do not furnish the poles supporting the cable track, but include all other parts as enumerated below. Length of cable, 150 feet.

50 feet to be strung between posts, and 50 feet on each end for guys. Outfit consists of 150 feet of 1/2-inch galvanized cable, 2 clamps for making loops around end stakes, 2 shoulder clamps to prevent posts from working inward, 2 bolts for securing posts together where they cross at top, 2 knot passing pulleys, 1 188B2710 double harpoon fork, 130 ft. 3/4-inch Manila rope, 75 ft. 3/4-in. check rope, 1 Champion 3-wheel cable carrier 188B2625.

188B2726—Ship. wt., 170 lbs. Price of above outfit \$11.40

188B2728—For 3/4-inch rope in place of 1/2-inch, add for each foot of 3/4-inch rope. 1c

For Prices on Manila and Sisal Rope of All Sizes, See Index for Pages

## Climax Hay Rack Brackets

Makes strong, rigid racks on account of there being no bolt holes through the main timbers. It is unnecessary to dress materials to fit clamps on.

One of the best and least expensive rack sets. Clamp fixtures consist of broad cast bearing top plates which lie diagonally across top of timber. Bolts are secured to the top plate and pass down along the side of timbers where they are secured to the bottom cross timber by nuts against washer clamp. Also plates that go between the first and second timbers. Complete set with directions, all packed in box.

188B2732—No. 1 size, with bolts for 14 in. rack. Shpg. wt., per set, boxed, 12 1/2 lbs. Retail \$1.25. Our price, per set, boxed, \$1.00

188B2734—No. 2 size, with bolts for 16 in. rack. Shpg. wt., per set, boxed, 13 1/2 lbs. Price, per set, \$1.00

188B2736—No. 3 size, with bolts for 18 in. rack. Shpg. wt., per set, boxed, 15 1/2 lbs. Price, per set, \$1.00

188B2738—No. 4 size, with bolts for 20 in. rack. Shpg. wt., per set, boxed, 17 1/2 lbs. Price, per set, \$1.00

188B2740—No. 5 size, with bolts for 22 in. rack. Shpg. wt., per set, boxed, 19 1/2 lbs. Price, per set, \$1.00

188B2742—No. 6 size, with bolts for 24 in. rack. Shpg. wt., per set, boxed, 21 1/2 lbs. Price, per set, \$1.00

188B2744—No. 7 size, with bolts for 26 in. rack. Shpg. wt., per set, boxed, 23 1/2 lbs. Price, per set, \$1.00

188B2746—No. 8 size, with bolts for 28 in. rack. Shpg. wt., per set, boxed, 25 1/2 lbs. Price, per set, \$1.00

188B2748—No. 9 size, with bolts for 30 in. rack. Shpg. wt., per set, boxed, 27 1/2 lbs. Price, per set, \$1.00

188B2750—No. 10 size, with bolts for 32 in. rack. Shpg. wt., per set, boxed, 29 1/2 lbs. Price, per set, \$1.00

188B2752—No. 11 size, with bolts for 34 in. rack. Shpg. wt., per set, boxed, 31 1/2 lbs. Price, per set, \$1.00

188B2754—No. 12 size, with bolts for 36 in. rack. Shpg. wt., per set, boxed, 33 1/2 lbs. Price, per set, \$1.00

188B2756—No. 13 size, with bolts for 38 in. rack. Shpg. wt., per set, boxed, 35 1/2 lbs. Price, per set, \$1.00

188B2758—No. 14 size, with bolts for 40 in. rack. Shpg. wt., per set, boxed, 37 1/2 lbs. Price, per set, \$1.00

188B2760—No. 15 size, with bolts for 42 in. rack. Shpg. wt., per set, boxed, 39 1/2 lbs. Price, per set, \$1.00

188B2762—No. 16 size, with bolts for 44 in. rack. Shpg. wt., per set, boxed, 41 1/2 lbs. Price, per set, \$1.00

188B2764—No. 17 size, with bolts for 46 in. rack. Shpg. wt., per set, boxed, 43 1/2 lbs. Price, per set, \$1.00

188B2766—No. 18 size, with bolts for 48 in. rack. Shpg. wt., per set, boxed, 45 1/2 lbs. Price, per set, \$1.00

188B2768—No. 19 size, with bolts for 50 in. rack. Shpg. wt., per set, boxed, 47 1/2 lbs. Price, per set, \$1.00

188B2770—No. 20 size, with bolts for 52 in. rack. Shpg. wt., per set, boxed, 49 1/2 lbs. Price, per set, \$1.00

188B2772—No. 21 size, with bolts for 54 in. rack. Shpg. wt., per set, boxed, 51 1/2 lbs. Price, per set, \$1.00

188B2774—No. 22 size, with bolts for 56 in. rack. Shpg. wt., per set, boxed, 53 1/2 lbs. Price, per set, \$1.00

188B2776—No.



## Superior Power Feed Cutter



Powerful, fast-cutting feed and ensilage cutter that can be operated with very light power. Safety Fly Wheels. Reversible, Cutting Bars. For 20 to 40 Head of Stock. Safety Stop Levers.

**\$20.45**

**Four 11-inch Knives**

Art. No.	Size	Knives	Cuts	H. Power	Ship.	Weight	Price
288B2800	No. 11 1/4-11 in.	4	1 in. 1 to 2 1/4	1/3	135	lbs.	\$20.45
288B2802	Crank to run by hand, extra.						.65
288B2804	12 ft. spiral elevator for No. 1 cutter.						Ship. wt., 200 lbs. \$17.50
288B2806	Extension to increase elevator in 4, 8 or 12 ft. lengths.						Ship. wt., per ft., 12 lbs. Price, per foot, \$1.00
							Shipped from Warehouse near Chicago or from factory in Ohio.

### Chicago Feed Cutter

\$680 and \$720



**11 1/2 inch Knife**

Capacity, per hour, about 150 to 200 lbs. of dry fodder, 300 to 400 lbs. of green fodder. Shipping weight, 160 lbs.

288B2870—Price at warehouse near Chicago. \$6.80

288B2872—Price at factory in Ohio. \$7.20

288B2874—Extra Knife. Wt., 4 lbs. \$1.00

Shipped from Warehouse near Chicago or from factory in Ohio.

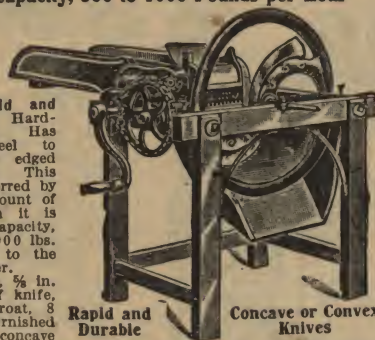
AN EXCEL-  
LANT  
EASY-  
RUNNING CUT-  
TER FOR A  
FEW HEAD OF  
STOCK. Knife  
is tempered tool  
steel, and makes  
a downward  
shearing cut. Is  
adjustable to cut  
from 1/2 to 1 1/4  
in., and geared  
to make 3 cuts  
to one turn of  
the crank. Main-  
shaft is 1 1/2 in.  
cold rolled steel.  
Heavy balance  
wheel. Has a  
fluted roll that  
feeds to knife.

## Feed and Ensilage Cutters

### Champion Feed Cutters

HAND OR LIGHT POWER  
Capacity, 500 to 1000 Pounds per Hour

\$17.90  
or  
\$17.95



A remarkably rapid and easy running machine. Hardwood bolted frame. Has heavy balance wheel to which the 2 curve edged knives are attached. This style machine is preferred by a great many on account of the ease with which it is run and its great capacity, being from 500 to 1,000 lbs. per hour, according to the condition of the fodder.

Cuts in two lengths, 1/2 in. and 1 in. Length of knife, 15 in.; width of throat 8 in.; height, 3 in. Furnished with convex or concave knives. The convex knives are very easily sharpened while the concave knives are much more easily sharpened than the knives used on many other style cutters. Shipping weight, 230 lbs.

288B2816—Price, with convex knives. \$17.90

288B2818—Price, with concave knives. \$17.95

When so desired we can furnish short cut attachment with this machine which admits of several additional lengths of cuts, the shortest being 1/4 inch.

288B2820—Short cut attachment, extra. \$2.25

Two cranks can be used on this cutter at the same time when so desired. Recommended where heavy or dry fodder is to be cut.

288B2822—Price of extra crank, wt., 5 lbs. .75

288B2824—Pulley, 10 in. diameter, 4 in. face for light power to not exceed 350 rev. per minute, wt., 20 lbs. \$1.35

Shipped from Warehouse near Chicago.

## Superior Hand Feed Cutters

### Tempered Tool Steel Knives—Bolted Frame



Run by hand. Has heavy balance wheels, which, with the shearing cut of knives, makes the machine very light running. Frame, made of heavy hardwood, strongly bolted together. Shaft is heavy, cold rolled steel. Knives are oil tempered tool steel and so constructed as to make a downward shearing cut. Feed rolls are large and driven by expansion gearing which allows the rolls to open up when the machine is fed heavy and still gives a positive and uniform feed.

Length of Cut easily changed by cone gearing. Has safety lever so that feed roll can be stopped instantly while the machine is running.

When both knives are used the cuts on the smaller machine are 1/2 in., 3/4 in. or 1 in. in length. On the larger machine 1/2 in., 3/4 in. or 1 in. in length. Cuts can be made twice as long by removing one of the knives. The feed table throat is designed to give ample room and to reduce the labor of feeding to a minimum.

Art. No. No. of Knives Lgth. in. Out. In. Capacity-Fodder Dry, lb. Green, lb. Shg. Wt. Price

288B2834 2 8 1/2 1/2 to 2 150 300 150 \$10.10

288B2836 2 10 1/2 1/2 to 2 325 600 280 14.75

288B2838—Pulley, 10x3 in. for 288B2836 only, to run by light power. Wt., 18 lbs. Price. \$1.00

Shipped from Warehouse near Chicago or from factory in Ohio.

## Superior Hand or Power Feed Cutter

Pulley to run by power. Crank to operate by hand.  
Especially adapted for Poultry account of its fine cut.  
Three knives, length, 10 1/2 inches.



Cuts 1/8, 1/4 or 3/8 inch lengths.

Heavy Hardwood Bolted Frame. Capacity for 10 to 20 head of stock, and sufficiently easy to run by hand, when a small amount of feed only is desired. Knife-head shaft is extended so that pulley and balance wheel can be placed on either side, but both cannot be on one side at one time. Has safety stop lever that stops the feed rolls instantly without interfering with the cutter head. Has friction balance wheel by which the wheel will turn on the shaft, should any hard substance stop the cutting head, thereby preventing the danger of breakage. Has sliding cone gear for changing length of cut. Feed rolls are driven by expansion gearing, and pressure is controlled by equalizer and spring board. Knives are detachable and adjustable. 1 to 1 1/2 H. P. required at 300 to 400 R. P. M. Diameter, driving pulley, 10 in.; face, 3 in. Crank to run by hand, also furnished. Capacity per hour, dry fodder, 800 to 1200 lbs.; green fodder, 1200 to 2400 lbs. Shipping wt., 300 lbs.

288B2860—Complete, with pulley and crank. \$18.90

Shipped from Warehouse near Chicago.

## Banner Lever Feed Cutter

For 1 or 2 head of stock



The frame is strong, solid and durable. The knife is of carefully tempered steel. Has a gauge which regulates the length of the cut. Lever is fitted with a guard so that when the knife passes the cutting bar, this guard closes the throat to prevent the fodder from being pushed too far forward. Strong, hardwood frame, hardened, steel knife. Shipping weight, about 45 pounds.

288B2848—Price at factory in Ohio. \$2.40

188B2850—Price at Chicago. \$2.55

Shipped from our store or from factory in Ohio.

## Superior Ensilage Cutters with Blowers or Steel Elevators

Serviceable and economical Silo Fillers. Big, powerful, well constructed machines that have been thoroughly tried and tested. As strong, durable and easy running as any other machines of equal capacity. Made in three sizes, with either drop leaf or traveling self-feed tables and with or without enclosed steel elevator or blower. Suitable for all kinds of dry or green fodder, including corn on the cob.

### Construction of Cutter

Frames are entirely of hardwood, very heavy, strongly braced, and put together with mortised and tenoned joints, and bolted. Tempered Steel Knives are spiral shaped, set to make a shearing, downward cut against steel cutting bar. Knives attached to heads by bolts and have adjustable screws to regulate each in relation to the steel cutting bar. Extra large hood over knives gives plenty of clearance with no danger of clogging; is also a protection against accidents. Main shafts on cutting head made of cold rolled steel, to which pulleys and balance wheels are attached. Either can be used on either side. Feed rolls have expansion gearing and pressure is exerted on an equalizer bar so that feed roll is raised the same at each end and there is no binding or undue friction in the boxes.

Safety patented, friction balance wheel will turn on shaft if any hard substance gets in with feed and suddenly stops knives. Safety stop lever, to immediately stop or start all working parts except the cylinder head.

### Feed Tables

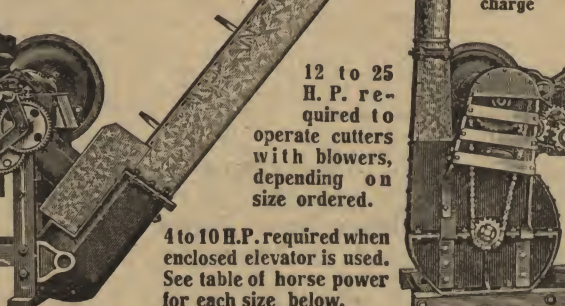
Either size furnished with either drop leaf or traveling self-feed table. Traveling self-feed table shown in both illustrations. We especially recommend purchase of the self-feed table for filling silos or for any work requiring the full capacity of machine. The fodder once placed on the table requires little attention. The feed table decreases the labor of feeding by one-third. It is sufficiently long to readily handle longest feed. The force feed device is a traveling apron that runs at same speed as feed rolls. Apron is controlled by safety lever same as feed rolls. Drop leaf table requires feeding by hand. One side leaf drops on a level with bottom of table giving a wide surface and is built low so that it is within easy reach of the operator.



This illustration shows ensilage cutter with traveling self-feed table, and straight-away enclosed steel elevator with hood.

### Enclosed Steel Elevators

More easily operated and requires less power than a blower. For silo filling this method of elevating cut feed will be found exceedingly economical and satisfactory. It can be operated in nearly a perpendicular position. Made of 18 gauge galvanized sheet steel. Will stand the hardest usage, and is practically indestructible. All buckets are carried on a single heavy chain belt and there is no side strain. It is extremely light running and is driven direct from shaft head with belt connection. Has tightener pulley controlled by a spring. Operator can quickly release tightener to stop the elevator in the event of getting caught through accident. Base of elevator is arranged so that all cut ensilage drops directly into the elevator and is immediately elevated, eliminating congestion. The plain elevator, as shown, is all that is necessary when silage is delivered in a direct line with the window of silo. Hopper and distributor pipe for inside of silo are extra.



12 to 25 H. P. required to operate cutters with blowers, depending on size ordered.

4 to 10 H. P. required when enclosed elevator is used. See table of horse power for each size below.

## Easy to set up and operate

While our Superior Cutters are big, powerful machines, they are especially noted for their simplicity of construction and operation. They are not too complicated; neither do they require skilled mechanics to set up and operate. Each outfit is set up at our factory and thoroughly tested, so that by following the printed directions we send, the regular farm hands will have no trouble whatever in getting the parts together and learning the operation within a very short time.



Showing ensilage cutter with traveling self-feed table and blower attached.

### Blower Elevator

Being closely connected with the cutter, and all mounted on one base, it takes up hardly any more room than the cutter alone, and operates as one machine with very little lost motion and vibration.

The improved method of driving the outfit from the blower shaft keeps the blower up to speed without the chance of fan losing speed on account of slipping belts or loose-fitting chains. Therefore, the danger of clogging is reduced to a minimum. The drive pulley is attached to fan opposite to side shown in illustration. The cutter head has sprocket chain connection to the fan shaft. A compact and close-coupled outfit.

The blower elevator is made of 16 gauge steel, with heavy, durable steel fan.

The following table of prices and specifications is for cutters only, without Elevators or Blowers.									
Article No.	Size	Knives	Size of cut	Power Required For Cutters Only	Speed Rev. per Minute	Capacity per Hour		Shpg. Wts., with Trav. Self Feed Table	Prices Cutters Only
						Dry Fodder	Green Fodder		With Drop Leaf Table No Elevator
288B2900	No. 1	4-13 in.	1/4, 1/2, 3/4 in.	3-4 H. P.	500-600	10x6	1 1/2-2 1/2 tons	510 lbs.	\$29.80
288B2902	No. 2	4-16 in.	1/4, 1/2, 3/4 in.	4-6 H. P.	500-600	12x6	3-4 tons	570 lbs.	\$45.00
288B2904	No. 3	4-20 in.	1/4, 1/2, 3/4 in.	6-8 H. P.	500-600	14x6	6-8 tons	1200 lbs.	\$66.30

Unless otherwise specified on order, we will furnish regular Pulleys. To insure proper speed, state in your order the horse power of your engine, the diameter and width of face and the speed of the engine pulley. We will then furnish a pulley of correct size on the cutter, to run it at the proper speed.

Straightaway Enclosed Steel Elevators For Superior Cutters Only. In figuring the length required, order about 1/4 more than the height in feet of the silo. Horse Power Required For Cutters With Elevators—No. 1, 4 to 6 H. P.; No. 2, 6 to 8 H. P.; No. 3, 8 to 10 H. P.

288B2906—No. 1 Elevator for No. 1 Cutter. Length, 12 feet. Shipping weight, 285 lbs. Price. \$29.95

288B2908—Extra Extension for No. 1 Elevator. To increase length over 12 feet. Weight, per foot, 10 lbs. Per foot. \$1.00

288B2910—No. 2 Elevator for No. 2 Cutter. Length, 12 feet. Shipping weight, 300 lbs. Price. \$32.00

288B2912—Extra Extension for No. 2 Elevator. To increase length over 12 feet. Weight, per foot, 12 lbs. Per foot. \$1.10

288B2914—No. 3 Elevator for No. 3 Cutter. Length, 12 feet. Shipping weight, 565 lbs. Price. \$38.00

288B2916—Extra Extension for No. 3 Elevator. To increase length over 12 feet. Weight, per foot, 18 lbs. Per foot. \$1.25

All Elevators and Extensions shipped from Warehouse near Chicago

Hoods and Distributor Pipe in 4-Foot Sections. Heavy Galvanized Steel. Hood is necessary and any number of pipe sections can be attached. Sections telescope and fasten with snaps so are flexible and allow distributing silage at any point inside the silo. Sections easily detached as the filling of silo progresses.

NOTE: 24-foot Silos require 5 Sections and hood; 30-foot, 6 Sections and hood; 36-foot, 8 Sections and hood.

288B2920—Hood for No. 1 Elevator. Ship. wt., 20 lbs. Price \$4.60

288B2922—Hood for No. 2 Elevator. Ship. wt., 25 lbs. Price \$4.75

288B2924—Distributor Pipe for Nos. 1 and 2 Elevators, in 4-foot Sections. Diameter at large end, 10 1/2 inches, at small end, 9 inches. Complete with Snap connectors. Wt., 5 lbs. per ft. Price, per 4-foot Section. \$1.50

288B2926—Hood for No. 3 Elevator. Ship. wt., 30 lbs. Price \$5.95

288B2928—Distributor Pipe for No. 3 Elevator, in 4-foot Sections. Diameter, large end, 12 in. Small end, 10 inches. Per section. \$1.75

Hoods and Pipes shipped from Warehouse near Chicago.

Prices for Outfits Quoted Below are for Cutters Complete With Blowers. As Shown Above, With Collapsible Hood and Top Elbow. Galvanized Piping is Extra. When Ordering Pipe, Order 5 Feet Less Than Height of Silo. Horse Power Required: No. 1 Outfit, 12 to 16 H. P.; No. 2, 15 to 20 H. P.; No. 3, 20 to 25 H. P.

288B2932—No. 1 Outfit. Consists of No. 1 Blower and No. 1 traveling self-feed table cutter. Ship. wt., 1,200 lbs. \$88.75

288B2934—Blower Pipe for No. 1 Outfit. Diameter, 7 in. Weight, per foot, 3 lbs. Price, per foot. \$1.00

288B2936—No. 2 Outfit. Consists of No. 2 Blower and No. 2 traveling self-feed table cutter. Ship. wt., 1,475 lbs. \$110.00

288B2938—Blower Pipe for No. 2 Outfit. Diameter, 8 in. Weight, per foot, 4 1/2 lbs. Price, per foot. \$1.10

288B2940—No. 3 Outfit. Consists of No. 3 Blower and No. 3 traveling self-feed table cutter. Ship. wt., 2,225 lbs. \$151.50

288B2942—Blower Pipe for No. 3 Outfit. Diameter, 11 in. Weight, per foot, 7 lbs. Price, per foot. \$1.80

Blower Outfits and Pipe shipped from Warehouse near Chicago.



# Climax Stump Pullers \$14.45 to \$53.75



**Sweep out of Gear**

**Free Trial Offer**

Send us your order accompanied by cash, for the size of puller you require. Put it to work and within 20 days from the date you receive it, if it does not work to your satisfaction, and if upon notice from you, we cannot correct any trouble you may have with it, or if in competition with other pullers, you do not find it up to requirements in every way, notify us and we will give you instructions to return it.

Simplicity is one of the greatest features of our Climax. Few working, therefore, few wearing parts.

Light Weight is another factor that increases the value of our Climax over similar stump pullers. Easily and quickly shifted so that a greater amount of work can be done in a given time than with most other makes.

V-Shaped Iron Drum winds the rope like thread on a spool and preserves its life so that it cannot chafe as a rope would on a grooved drum. The first three coils act as a bed, equalizing the pressure to the next three coils. There is no flattening or breaking of the wires. One rope on our V-shaped drum will outwear two ropes on many other styles of stump pullers.

**The Low Down Feature of the Climax** Coupled with its semi-steel construction, its two part bearing and its compact form, insures greater power and greater strength than any other similar machine made for clearing land.



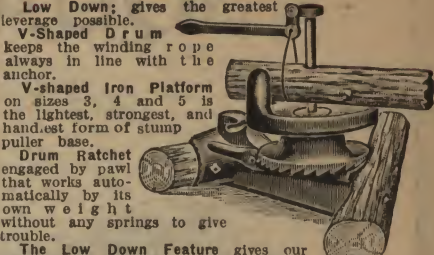
**Climax Stump Pullers**

Will clear land, acre for acre, at about one-half the cost of most stump pullers. An Illustrated Book of directions, showing different methods of pulling stumps and instructions for setting up and operating our stump pullers, furnished with each machine.

The sweep can be instantly adjusted to any length by shifting the center shaft, to shorten the sweep to gain speed in light work, or to lengthen it to gain power for heavy work.

Automatic Ratchet Pawl is made of one piece, with no springs or traps to become disengaged. Its action is automatic and positive. It bears on the side of the Platform where the whole machine must resist the load. Far superior to the so-called double safety ratchets on other machines.

**Showing Puller with Sweep in Gear**



Low Down; gives the greatest leverage possible.

V-Shaped Drum keeps the winding rope always in line with the anchor.

V-shaped Iron Platform on sizes 3, 4 and 5 is the lightest, strongest and handiest form of stump puller base.

Drum Ratchet engaged by pawl that works automatically by its own weight without any springs to give trouble.

The Low Down Feature gives our Climax the greatest possible strength and insures the winding of the rope so close to the ground that a team can cross over it under the most severe strain. It is the seat of power in the machine, giving the greatest leverage possible.

The Sweep Lift for throwing the machine in and out of gear has lever connection to the sweep, and a slight pressure unseats it. Furnished on all sizes except No. 1.

Pivoted Anchor Platform insures equilibrium of the machine under all conditions. The Climax Stump Puller will not roll or tip forward when under a heavy strain.

Patent Drum Flange is one of the most important improvements on any stump puller. It makes a perfect winding drum, insures winding of rope coils in regular layers on the drum, and prevents the rope slipping off the drum.

## Snatch Blocks or Doubling Power Pulleys

**Open** **Closed** **Made of Steel**

To decrease strain on rope, and to double, triple, or quadruple the power according to the number used. Have hitch rope with slip hook on one end, and a rope hook on the other. Heavy steel frames.

288B9020—No. 1 for pulley ropes up to 5/8 in. diameter, complete with 12 ft. 3/4 in. hitch rope; weight, 60 lbs. Price.....\$8.45

288B9023—No. 2 for pulley ropes up to 3/4 in. diameter, complete with 15 ft. 3/4 in. hitch rope; weight, 80 lbs. Price.....\$12.20

288B9025—No. 3 for pulley ropes up to 1 in. diameter, complete with 15 ft. 1 in. hitch rope; weight, 110 lbs. Price.....\$16.45

Shipped from factory in Southeastern Minnesota.

## Anchor Ropes \$4.90

Used to anchor machine to a stump or tree, allowing space for the horses to pass between the machine and anchor stump or tree, for scattering timber, willow bunches, moving buildings, etc. One end has patent rope hook, the other loop coupling, and can be instantly attached or detached. Length of ropes, 25 ft., of high grade steel strand.

Article No.	Size Anchor Rope	Weight	Price
288B9040	3/8 in.	30 lbs.	\$4.90
288B9041	1/2 in.	40 lbs.	6.40
288B9042	3/4 in.	55 lbs.	7.90
288B9043	1 in.	70 lbs.	9.50

Shipped from factory in Southeastern Minnesota.

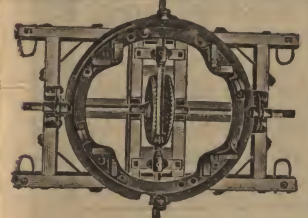
## Cluster Ropes For Use in Thick Growth of Trees, Brush, Stumps, and Grubs.

Made from our best steel wire rope. Four 10 ft. lengths, each with a rope hook at one end, babbitted securely in the cluster anchor casting. They are light, handy, and save considerable time and labor by pulling four stumps at one time.

288B9063—Rope Cluster made of 3/8 in. rope, length of each rope (4 in all), 10 ft.; weight, complete, 70 lbs. Price, \$10.90

288B9066—Rope Cluster, made of 1/2 in. rope, length of each rope (4 in all), 10 ft.; weight, complete, 90 lbs. Price.....\$13.95

Shipped from factory in Southeastern Minnesota.



**Climax Sweep Horse Powers, \$23.45**

Each power has two speeds. The high speed is on the long shaft, which is squared at both ends, one end turning with the horses and the other end turning against the horses. Both of the short shafts turn with the horses and both have the same slow speed, therefore only one is squared for coupling. Illustration shows 4 horse power, other sizes are similar, except the 2-horse has no stake lugs. Two steel tumbling rods, three knuckles, rod block, foot board and stakes furnished with each power. The 2 H. P. has 2 sweeps and two lead poles, making 32 revolutions on the high speed and 10 1/2 on the low speed, to one round of the horses. Length of tumbling rods, 11 ft. Shaft and rods squared to 1 inch. The 4 H. P. has two sweeps and two lead poles. Makes 51 revolutions on the high speed and 11 revolutions on the low speed to one round of the horses. Length of tumbling rods, 10 and 12 ft. Rods and shafts squared to 1 1/2 inches.

We do not recommend our horse powers for use with threshing machines.

Shp. Wt.	Price
about 150 lbs.	760
288B9090—2 H. P. with 2 sweeps.	1,080
288B9092—4 H. P. with 2 sweeps.	1,170
288B9094—6 H. P. with 4 sweeps.	1,450
288B9096—8 H. P. with 4 sweeps.	1,450

Shipped from factory in Southeastern Minnesota



**Stutzman Fruit Evaporators**

Stutzman evaporators are made of galvanized steel; durable, simply constructed and easily operated. They are well known throughout the country, having been on the market for a number of years. They have not only given universal satisfaction, but are conceded to be the best evaporators of this kind now built. Made in two sizes. Directions with each.

Size No. 2. Capacity, 3 to 4 bushels per day. This size is used mostly by farmers. Has 16 trays, 12x24 in., with all latest improvements. Made of excellent galvanized iron with galvanized wire cloth trays. Weight, 175 lbs.

288B9123—Price, complete with grate.....\$16.75

Size No. 3. Capacity, 4 to 5 bushels per day. This size is made expressly for large family use and small orchards, where a portion of the fruit is sold in the market; has 20 trays, 12x24 in. The latest, improved frame, made of excellent galvanized iron, with galvanized wire cloth trays. Weight, 225 lbs.

288B9125—Price, complete with grate.....\$20.75

Shipped from factory in Indiana

## The Climax Pullers

Are made in five sizes ranging from the smallest to the largest work. Sizes of trees are given for your guidance and are intended to cover moderate conditions. If your grubbing is unusually difficult, we recommend that you purchase a size that is liberally large, as it will be found easier to operate and the wear will be less than on a smaller size, taxed to its capacity. If in doubt, write us, giving condition of your ground and kind of roots you have to pull and we will advise you what machine is best suited to your requirements. We especially recommend the use of snatch blocks as they increase the power and prolong the life of the rope. Prices do not include sweep, cross blocks or any wood parts. Rope Shortener or take-up comes with each outfit.

288B9001—No. 1 Climax Stump Puller can be used by hand or is suitable for one horse. Furnished complete with 5 ft. dia. anchor loop and 45 ft. of 3/4 in. steel pull rope. Suitable for trees up to 6 inches through. No sweep lift furnished. Weight, 185 lbs. Price.....\$14.45

288B9003—No. 2 Climax Stump Puller, suitable for either one or two horses, complete with 6 ft. dia. anchor loop and 50 ft. 3/4 in. steel pull rope. Suitable for stumps up to 8 in. diameter. Weight, 240 lbs. Price.....\$20.25

288B9006—No. 3 Climax Stump Puller, suitable for one or two horses, complete with 25 ft. 3/4 in. anchor rope and 50 ft. 3/4 in. steel pull rope. Suitable for trees up to 15 in. diameter. Weight, 375 lbs. Price.....\$28.90

288B9009—No. 4 Climax Stump Puller for one or two horses, complete with 25 ft. 3/4 in. anchor rope and 75 ft. 3/4 in. steel pull rope; suitable for trees up to 24 in. through where snatch blocks are used; weight, 460 lbs. Price.....\$39.75

288B9012—No. 5 Climax Stump Puller for two horses, suitable for the lightest or heaviest work, complete with 25 ft. 3/4 in. anchor rope and 75 ft. 3/4 in. steel pull rope. By using our snatch blocks this puller will handle the largest kind of work. Weight, 600 lbs. Price.....\$53.75

Shipped from factory in Southeastern Minnesota.

## Rope Shortener

A labor and time saving device. With it you can take up the slack in the pull rope at the stump instead of winding it on the drum. Can also be attached at any point on the pull rope. One furnished with every complete stump puller outfit. Made of Cast Iron.

288B9070—Size No. 1, for steel rope up to 3/4 in. weight, 10 lbs. Price.....\$1.85

288B9072—Size No. 2, for steel rope up to 1 in. weight, 15 lbs. Price.....\$2.75

288B9074—Size No. 3, for 3/4 and 1 in. steel rope; weight, 27 lbs. Price.....\$3.80

Shipped from factory in Southeastern Minnesota.

## Rope Couplings

Strong and serviceable iron devices for connecting ropes. A coupling set consists of a hook connection for one rope end and a slip loop coupling for the other. Can be attached or detached instantly. Prices are for the coupling sets only, without rope.

Article No.	Couplings for size	Weight	Price
288B9030	3/8 in. Rope	10 lbs. Per Set	\$1.45
288B9031	1/2 in. Rope	12 lbs. Per Set	1.80
288B9032	3/4 in. Rope	18 lbs. Per Set	2.25
288B9033	1 in. Rope	24 lbs. Per Set	2.60
288B9034	1 1/4 in. Rope	30 lbs. Per Set	2.95

Shipped from factory in Southeastern Minnesota.

## Stump Puller Rope

From one of the largest and best known manufacturers of high grade ropes. After fairly testing nearly every make of Standard Steel Rope, both domestic and imported, because of its quality and durability, we have selected the steel rope supplied with our stump pullers as the rope best suited for clearing land. One grade only, especially tempered for the purpose, and made of carefully assorted wires of No. 1 steel. Furnished any length, 10 ft. or over, but prices do not include couplings or fittings. See prices for couplers above.

Article No.	Diam. Rope	Wt. Per Ft.	Price Per Ft.
288B9047	3/8 in.	39 lbs.	10c
288B9049	1/2 in.	63 lbs.	14c
288B9051	3/4 in.	80 lbs.	18c
288B9053	1 in.	120 lbs.	24c
288B9055	1 1/4 in.	158 lbs.	28c

Shipped from factory in Southeastern Minnesota.

## Double Point Root Hooks

Especialy adapted for light work in brush and grubs and intended for use with the smaller machines.

Not intended for large stump pulling, except where roots are decaying. One size only, of cast steel. Weight, 30 lbs.

288B9080—Price.....\$4.50

Shipped from factory in Southeastern Minnesota.

## Bevel Gear Jacks

For use with horse powers. Made in two sizes, light and heavy. Illustration shows the heavy jack. The lighter jack, while frame differs slightly, is practically the same. Bed frames are made of seasoned hard wood, shafts of steel and gear wheels of excellent quality close grained cast iron. Boxes babbitted.

288B9110—Light Bevel Gear Jack for 2 H. P., with 12x4 in. pulley, geared 2 1/2 to 1, shaft squared to fit 1 in. coupling. Shipping weight, 90 lbs. Price.....\$5.90

288B9112—Heavy Bevel Gear Jack for 4, 6 or 8 H. P., with 15x6 in. pulley geared 3 to 1, 1 1/2 in. shaft squared to fit 1 1/2 in. coupling. Shipping weight, 170 lbs. Price.....\$8.10

Shipped from factory in Southeastern Minnesota

## Tumbling Rod Couplings 56c to 58c

To connect tumbling rods on Horse Powers and Speeding Jacks. Iron. Will not heat or out. Has no pin to wear. Greatly reduces the friction. Carried in stock to fit 1, 1 1/4, or 1 1/2 in. squared shafts. Ship. wt., 14 lbs. each. Price

188B9116—For 1 in. shaft 56c

188B9118—For 1 1/4 in. shaft 57c

188B9120—For 1 1/2 in. shaft 58c

## Ormas Hot Air Fruit Dryer

For drying fruit, berries, corn, beans, etc. Light, lasting, clean and fly-proof. Has four trays. Made of galvanized iron, tin and wire cloth. Size, 12x20 in. Wt., 20 lbs. Capacity, 1 to 3 pecks per day.

188B9140—Price.....\$3.10

Shipped promptly from stock at Chicago



**Stutzman Hot Air Cook Stove Driers**

To be used on any style cook stove or range.

Made in two sizes.

Cook stove shown in illustration not furnished, \$6.20

Size No. 1. Capacity from two to four pecks per day. Height, 25 in.; width, 26 in.; depth, 11 in.; has 6 wire trays, 21x10 1/2 in. Weight, 40 lbs.

288B9130—Price at factory. (Dryer only). \$5.00

288B9132—Price at Chicago. (Dryer only). 5.20

Size No. 2. Capacity from one to two bushels of green apples per day. Height of dryer, 31 in.; depth, 11 in.; width, 26 in.; has 10 trays, 21 1/2 x 10 1/2 in. Made of galvanized iron. Set on the back part of cook stove. Wt., 50 lbs.

288B9135—Price at factory. (Dryer only).....\$6.00

188B9137—Price at warehouse. (Dryer only).....6.20

Shipped from warehouse near Chicago or factory in Indiana

## Challenge Portable Scales

Two Sizes, Capacity 600 or 1000 Lbs.

Made so that inspectors will approve them. Will weigh anything from 1/2 lb. to full capacity. Equal in construction, durability, quality of material and appearance to scales that retail at from \$10 to \$12. Every scale tested, carefully fitted, sealed under U. S. Standard Weights. Every part handled by skilled scale-makers. The weighing beam is of solid brass, carefully and plainly graduated from 1/2 lb. to 100 lbs. The sliding poise is brass, and will weigh correctly on any corner as well as in the center. Diameter of wheels, 5 in. The frame of platform and base are made of close-grained, soft, gray iron, and will stand rough usage. Tightly boxed.

188B9145—Challenge 600 lb. scales; platform, 15x21 in. Shipping weight, boxed, 100 lbs. ....\$7.35

188B9148—Challenge, 1,000 lb. scales; platform, 17x23 in. Shipping weight, boxed, 120 lbs. ....\$8.90

Shipped promptly from stock at Chicago

## Old Reliable Pit

We have sold them for 15 years and know their value

**Complete Directions for Setting Up**

The double brass beam is accurate and nicely finished. The beam box is of good quality and durable. The suspension bearings of this scale and the self-locking corner irons are strong and substantial and will retain their accuracy for many years. I beam cast levers, strengthened by truss rods suitably placed combine to make this a thoroughly reliable scale. Only a shallow pit is required. We give dimensions of the pit necessary. Prices are for scales complete with beam box, but do not include the timbers or platform. These timbers can be easily procured from your lumber dealer. We furnish a list of timbers necessary.

Article Number	Capacity	Shipping Weights	Size of Platform	Price
288B9150	3 tons	525 lbs.	8x14 ft.	\$33.50
288B9153	4 tons	550 lbs.	8x14 ft.	34.75
288B9156	5 tons	575 lbs.	8x14 ft.	36.80
288B9158	6 tons	600 lbs.	8x14 ft.	39.90

Shipped from factory near Chicago

## Wagon, and Stock Scale

Good serviceable Scales at a low price.

Made in Compliance with Recent Scale Laws



# Horse Brushes and Combs and Curry Combs



**95B6600**—Oval shape, flat face Horse Brush. Nine rows gray tamponco center and white outside. Embossed back with patent leather strap. Size of brush, 8 1/2 in. by 4 1/2 in. Weight, 7 oz. each. Per dozen ..... \$1.60 Each ..... .15



**95B6605**—Compactly filled with the very finest quality of brown India fibre. This is a large size brush, a good cleaner, and very serviceable. Oval shaped hard wood backs, size 8 1/2 in. by 3 1/2 in. Patent leather hand strap. A very profitable brush for any person to buy. Weight, each, 11 oz. Per dozen ..... \$1.50 Each ..... .15



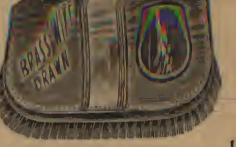
**95B6610**—Our Fine Tamponco Dandy, or Dandruff Brush. These brushes are made from a fine grade of gray Tamponco, specially prepared, the fibre being 2 in. long. The face of the brush is rounded and is extra heavily stocked. The back is 10 in. by 2 1/2 in. With finger guards. Pointed at each end. White shellac finish. Weight, about 15 oz. each. Per dozen ..... \$3.00 Each ..... .27



**95B6615**—Oval shape, genuine patent leather back, heavy harness leather strap. Eleven rows of stiff black imported tamponco. These brushes are good size, well filled, and are positively the best brushes ever sold at the price. Size of brush, 9 1/4 in. by 4 1/2 in. Weight, 9 oz. each. Per dozen ..... \$3.25 Each ..... .30



**95B6620**—Made from the very finest and most carefully selected Mexican rice root. Beautiful white maple backs, finished with shellac. Leather finger guards on each side of brush. Length of back, 10 in. This is an excellent brush at the price. Weight, each, 14 oz. Per dozen ..... \$3.25 Each ..... .30



**95B6625**—Genuine red leather back and russet leather hand strap. This brush is closely filled with gray tamponco center and has a row of black imported bristles outside. Brushes with genuine leather backs have never before been sold at so low a price. Size of brush, 8 1/2 x 4 1/2 in. Weight, 9 oz. Per dozen ..... \$4.25 Each ..... .39



**95B6630**—Solid hard wood backs, highly polished, compactly filled with the best quality of India fibre trimmed 1 1/2 in. clear of the block. Length of brush, 9 1/2 in. Weight, each, 10 oz. Per dozen ..... \$1.71 Each ..... .15



**95B6635**—Very closely filled with the finest quality of "Peerless" rice root, trimmed 2 inches clear of the block. Backs are made of clear, white, hard maple, beautifully polished, size 10 in. by 2 1/2 in. Russet grain leather hand shields on each side of the brush. Brushes packed one each in a carton. The highest grade brush of this style procurable. Weight, each, 15 oz. Per dozen ..... \$5.00 Each ..... .45



**95B6640**—Large, oval face, genuine leather back horse brush. Very closely filled with strong gray imported tamponco. The back is heavy maroon leather, and the strap heavy russet leather. This is an extra large size brush, well filled and will give satisfactory service. Size of brush, 9 1/2 in. by 4 1/2 in. Weight, 10 oz. each. Per dozen ..... \$5.50 Each ..... .49



**95B6645**—Steel Wire Dandy Horse Brushes, made of a special grade of tempered steel wire. They remove dandruff and loose hair; leave the skin in a healthy condition, make the horse feel good, and are easily kept clean. Finely finished wood backs. Length of backs, 9 1/2 in.; length of steel teeth, 1 1/2 in. Weight, each in box, 10 oz. Per dozen ..... \$5.40 Each ..... .50



**95B6650**—Extra well fitted with imitation unbleached Russia bristles. Finished with the finest quality of russet grain leather back and strap. A large good-looking brush that will give satisfactory service. Size of brush, 8 3/4 in. by 4 1/2 in. Weight, 10 oz. each. Per dozen ..... \$7.50 Each ..... .65



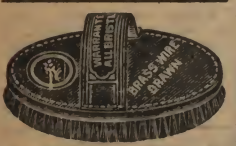
**95B6655**—Steel Wire Horse Brushes. With heavy oval-shaped wood backs. Made of the same grade of wire as 95B6645 brushes, but having a greater cleaning face. Size of back, 3 1/2 in. wide by 8 1/2 in. Length of wire, 1 1/2 in. Weight, each, 13 oz. Per dozen ..... \$8.75 Each ..... .75



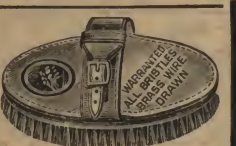
**95B6660**—This Brush is made on the U. S. Army pattern. It has fifteen rows of gray mixed imported bristles, very closely set. The back and strap are of the best quality of russet grain leather, and the backs are stitched with one row of wire and one row of thread, as shown in cut. Size of brush, 8 1/2 in. by 4 1/2 in. Weight, each, 9 oz. Per dozen ..... \$9.50 Each ..... .84



**95B6665**—This Brush is made on a genuine leather block with fifteen rows of stiff black Chinese bristles. The back and strap are made of heavy five-ounce black grain leather. This is the best all-bristle brush we ever sold for the money. Size of brush, 9 in. by 4 1/2 in. Weight, each, 8 oz. Per dozen ..... \$10.00 Each ..... .90



**95B6670**—Made with alternate tufts of stiff black bristles and short white bristles, giving the brush an uneven surface and thereby allowing the bristles to penetrate through the hair and clean better than any other style of brush will. The back is double stitched with wire and thread, and is made of the best quality of heavy russet leather. The strap is made of the same leather, wide fancy shape. Size of brush, 8 1/2 in. by 4 1/2 in. Weight, each, 10 oz. Per dozen ..... \$14.00 Each ..... 1.22



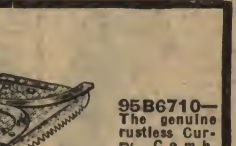
**95B6675**—Extra quality, solid russet leather back, with buckle on hand strap. Large oval face, with nineteen rows of stiff, natural yellow Russia bristles. All the material in this brush is first-class in every way. Size of brush, 8 1/2 in. by 4 1/2 in. Weight, each, 12 oz. Per dozen ..... \$18.75 Each ..... 1.65



**95B6700**—Mane Comb, Shedder and S w e a t Scraper combined. A good, strong iron mane comb, with a rubber shedder or sweat scraper, 5 1/4 in. long on the back. Far superior to a wooden sweat scraper. Weight, each, 8 oz. Per dozen ..... \$1.25 Each ..... .12



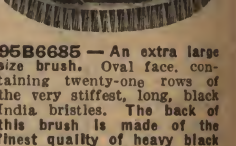
**95B6705**—"Humane Reform" Curry Comb, made of the finest cold rolled steel with bronze finish and will not rust. It will thoroughly curry a horse in one-half the time usually required. It will not irritate the most sensitive skin and is perfectly self-cleaning as no hair can stick to the teeth or clog between the bars. It plops out the dirt and the slightest tap on its face will clean it. Solid leather handle on back; size, 6 1/4 x 4 1/4 in. Weight, each, about 6 oz. Regular dealer's price, 25c. Each ..... 1.00



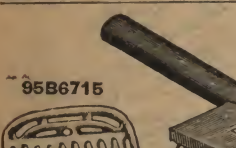
**95B6710**—The genuine rustless Curry Comb. All heavy rolled steel, with galvanized finish, which will not rust; heavy shank passes clear through the handle, and is riveted on the outer end; black enameled handle, brass ferrule. Weight, each, 11 oz. Each ..... \$0.18 Per dozen ..... 1.95



**95B6680**—Nineteen rows of long, stiff, penetrating black bristles, which will wear to the block. The backs and straps are of the heaviest and finest quality of black grained leather, double stitched with wire and thread. This is one of the finest flexible bristle horse brushes procurable. Size of brush, 9 in. by 4 1/2 in. Weight, each, 12 oz. Per dozen ..... \$24.00 Each ..... 2.10



**95B6685**—An extra large size brush. Oval face, containing twenty-one rows of the very stiffest, long, black India bristles. The back of this brush is made of the finest quality of heavy black leather. The strap is made of the same stock and has a black hard rubber buckle, so that the strap may be adjusted to fit any size hand. This brush is made throughout of the very finest materials procurable; will give lasting satisfaction. Size of brush, 8 1/2 in. by 4 1/2 in. Weight, each, about 13 oz. Per dozen ..... \$24.00 Each ..... 2.25



**95B6715**—The Perfection Mane and Tail Comb. An up-to-date horse comb that will not catch and will neither break the hair nor pull it out. It is light and neat and being made of best malleable iron is very durable. Weight, each, 3 oz. Each ..... 50c Per dozen ..... 5.70



**95B6720**—Small, 3 1/2 x 5 1/2 in. Each ..... \$0.12 Per dozen ..... 1.37 Weight, each, 5 oz. **95B6721**—Large, first quality, 3 1/2 x 8 1/2 in. Weight, 7 oz. Each ..... \$0.15 Per dozen ..... 1.60 **95B6726**—Patent Circular



**95B6726**—Steel Reversible Curry Combs. Four complete circles of steel working independently of each other, attached to an iron back by a hinged joint; wood handles. A good, solid comb; with knocker. Weight, each, 8 oz. Each ..... \$0.14 Per dozen ..... 1.60 **95B6731**—Curry Combs. The Climax. All steel, oxidized finish. 8-bar, closed back.



**95B6736**—Made of all steel. Extra heavy steel shank passing through handle and riveted; steel knocker. We call your special attention to this comb. It is undoubtedly the best in the market for the money. Weight, each, 11 oz. Per doz. \$1.50 Each ..... .15 **CURRY COMB AND SCRAPER** **95B6736**—Made of all steel.



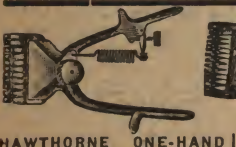
**95B6741**—Curry Combs. 8 bars riveted, shanks passing through handles and riveted. Black enameled handles, brass ferrules. Scraper all steel, riveted to curry comb (as illustrated). Best value for the money. Weight, each, about 9 oz. Per dozen ..... \$1.30 Each ..... .12



**95B6746**—Curry Combs. All steel, 8 bars, open backs. Shanks running through handles and riveted carmine handles. Steel ferrules, plain knocker, japanned finish. Weight, each, 6 oz. Each ..... \$0.10 Per dozen ..... 1.08 **95B6746**—Curry Comb. Warranted steel. Has 8-bar, extra heavy steel, blued black enameled handle pinned to



wrought iron shank. Weight, each, 8 oz. Each ..... \$0.10 Per dozen ..... 1.08 **CURRY COMBS** **95B6751**—Curry Combs. All steel. Open back. Carmine handles. Steel ferrules. Has 6 bars, plain knocker, japanned finish. Weight, each, 5 oz. Each ..... 90c Per dozen ..... 9.00



**HAWTHORNE ONE-HAND CLIPPER** **95B6755**—One Hand Fetlock Clipper. A high grade clipper in a new and desirable pattern. The coiled steel wire balance spring insures proper action and the cutting plates are tempered steel. Fine nickel plated finish. Weight, each, 11 oz. Each ..... \$1.30



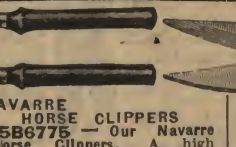
**THE HUNTER FETLOCK CLIPPER** **95B6760**—The "Hunter" one hand, spring Horse or Dog Clipper. Good quality, well made and entirely suitable for any person having only occasional use for clippers of this style. Weight, each, 6 oz. Each ..... 79c Extra top plates. Each 35c Extra bottom plates. Each 40c Extra springs. Each ..... 12c



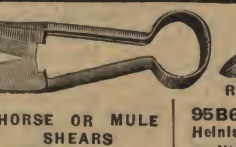
**95B6765**—Fetlock Clippers with fine nickel plated finish. These clippers are made with a coiled spring of steel piano wire inside the hood and the cutting plates are highly tempered steel. Each clipper is carefully examined and tested in the factory before shipment is made to us. Weight, each, 9 oz. Each ..... 98c Extra top plates. Each 35c Extra bottom plates. Each 40c



**OUR BALL BEARING HAND HORSE CLIPPERS** **95B6770**—Our Patent Anti-Friction Ball Bearing Horse Clippers. Fine material and workmanship all through, and finest possible finish. A practical and durable clipper. Will give good service. Weight, each 17 oz. Each ..... \$1.40 Extra top plates. Each ..... 60c Extra bottom plates. Each ..... 70c



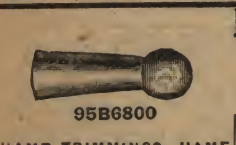
**NAVARRA HORSE CLIPPERS** **95B6775**—Our Navarre Horse Clippers. A high grade, anti-friction, roller bearing clipper with extra fine finish. Plates fitted and locked with patent Taper-Shank Set Screws, which, once set, may be used all day without readjustment, as neither hair nor dirt can get between the plates. This is a very fine horse clipper and one which will give excellent service. Weight, about 20 oz. Price, each ..... \$1.40



**HORSE OR MULE SHEARS** **95B6780**—Horse or Mule Shears with curved blades for trimming manes, tails, or around fetlocks. Half polished blades; made from a high grade of shear steel, which has been tempered by a patent process. Weight, each, about 6 oz. Each ..... 27c



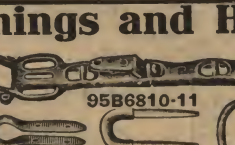
**95B6785**—Roaching Shears, R. Heinisch's make. Very highest quality, best laid steel. Length, 9 1/2 in. Each ..... \$1.00 Weight, each, 8 oz.



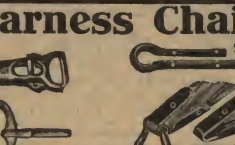
**HAME TRIMMINGS—HAME TOPS** **95B6800**—Brass Ball Hame Tops. Suitable for use on any Concord hame. Diameter of opening, 1 1/4 in. Length, 3 in. Weight, each, 5 oz. Each ..... 20c **95B6805**—Dandy Brass Hame Tops, common or standard size, 1 1/4 in. Ball. Diameter of opening, 1 1/4 in. Total length, about 7 in. Weight, each, 8 oz. Each ..... 30c



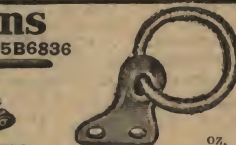
**MOELLER'S HAME TUGS** **95B6805**—Moeller's Iron Hame Tugs. 2 loop, as used in long tug harness, XC metal (white) plate. **95B6810**—Size, 1 1/2 in. Weight, per set of (4), 5 lbs. Price, per set (4), 76c **95B6811**—Size, 1 1/2 in. Weight, per set of (4), 5 1/2 lbs. Price, per set (4), 89c



**HAME STAPLES** **95B6821**—Hame Staples, with burrs. Made of best quality malleable iron. Extra heavy. Weight, per dozen, 30 oz. Per dozen ..... 16c **LINE RINGS** **95B6826**—Hame Line Rings. With stubs and burrs. Weight, of four, 6 oz. Price, per set of 4, 12c



**HAME REPAIR CLIPS** **95B6826**—Made out of sheet steel bent to fit the lower point of our wood hames. The handiest item for repairing old hames. Weight, per dozen, 11 oz. **95B6831**—Clip without loop. Weight, 11 oz. Per dozen ..... 19c **95B6832**—Clip with loop. Weight, 1 lb. 4 oz. Per dozen ..... 29c **95B6836**—Hame Clips for



on Buggy Hames. Finest material, japanned finish. Without rivets. Weight, each, 4 oz. Per doz. pairs ..... 90c Per pair ..... 8c **HOLD BACK PLATES** **95B6841**—Hayden's Hold back plates with rings for use on wooden hames, polished finish. Made in rights and lefts and sold in pairs. We do not break pairs. Weight, per pair, about 7



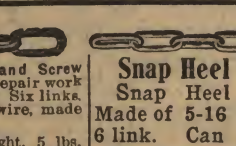
**HAME LOOPS PER DOZEN, 24c** **95B6846**—Screw Hame Bottom Loops. Loop will admit 1 in. strap, japanned finish. Weight, per doz., 11 oz. Per dozen ..... 24c **HAME RIVETS** **95B6851**—Hame Rivets, 1 in. oval head, put up in 1 lb. packages. We do not break packages. Weight, 1 lb. Price per package, 7c



**SUCCESS HAME FASTENERS** **95B6856**—Success Hame Fasteners, stronger and more easily adjusted than any other hame strap or patent fastener. Easily put on and cannot get out of working order. Indestructible, will last as long as the hames. Place the heavy end into the loop of the off hame and hammer down the hook so that the fastener cannot become detached. We have given these fasteners years of successful trial on our own teams. Weight, each, 12 oz. Per dozen ..... \$2.25 Each ..... .20



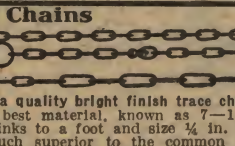
**HEEL CHAINS** **95B6861**—Size, 1 1/2 in. Weight, 5 lbs. Price per set (4) ..... 45c **95B6862**—Size, 1 1/4 in. Weight, 5 lbs. 2 oz. Price per set (4) ..... 47c **95B6863**—Size, 2 in. Weight, 5 lbs. 4 oz. Price per set (4) ..... 50c



**Snap Heel Chain** **95B6868**—Weight, per set, about 5 lbs. 4 oz. Price, per set (4) ..... 52c



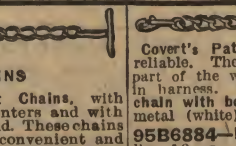
**Trace and Breast Chains** **95B6873**—Our extra quality bright finish trace chains. Made from the very best material, known as 7-10-2 length, 7 feet, 10 links to a foot and size 3/4 in. iron. These chains are much superior to the common trace chains generally offered for sale, being much stronger. Weight, per pair, 6 1/2 lbs. Per pair of two chains for one horse ..... 39c **95B6874**—Extra Heavy Trace Chains. Made of heavy 5/16 in. iron, length 7 ft., ring on one end. Wt., per pair, 9 1/2 lbs. Per pair of two chains for one horse ..... 80c



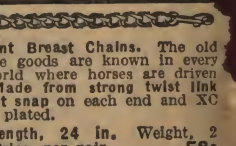
**BREAST CHAINS** **95B6879**—Bright Breast Chains, with malleable slides in the centers and with "T" or toggles on each end. These chains are very serviceable, very convenient and very cheap. Made of twist link chain, size 3/4 in. iron, with bright polished finish. Length, 26 in. Weight, per pair, 2 lbs. 10 oz. Per pair (2) ..... \$0.25 Per dozen pairs ..... 2.85



**95B6885**—Length, 28 in. Weight, 3 lbs. 4 oz. Price, per pair ..... 64c **95B6886**—Length, 32 in. Weight, 3 lbs. 12 oz. Price, per pair ..... 75c



**Covert's Patent Breast Chains.** The old reliable. These goods are known in every part of the world where horses are driven in harness. Made from strong twist link chain with bolt snap on each end and XC metal (white) plated.



**95B6886**—Length, 24 in. Weight, 2 lbs. 12 oz. Price, per pair ..... 58c







## "Our Economy Automatic Lock-Stitch Sewing Awl Repair Outfit"



The simplest and most practical harness and shoe repairing outfit on the market. Contains all the necessary tools for doing any kind of leather repairing. Especially desirable and a money saver for farmers, teamsters and livery men. The outfit contains one lock-stitch automatic wax thread sewing awl, one needle for heavy stitching and general repairing, one small needle for light stitching, one curved needle for sewing patches on shoes, one collar awl for repairing and sewing collars, lacing up belting, etc. Two spools of our special line thread No. 3 and No. 5 all ready twisted and prepared to wax, one collapsible clamp or stitching horse, one ball of wax, one extra bobbin, one wrench, all put up in a neat wooden box with complete set of instructions. The awl will stitch the heaviest tug or harness, belts, rugs, carpets, tents, awnings, canvas of all kinds, mittens, saddles, buggies, etc. The awl carries a grooved needle, such as is used in all lock-stitch sewing machines and the thread is carried from a bobbin inside of the handle, where it is protected and out of the way. It is so simple any one can use it and you will find it will save you many dollars during the course of a year. Weight, packed for shipment, 25 oz.

Order 9588100—Outfit complete as shown, price.....60c  
Order 9588101—Lock-stitch Sewing Awl with three needles and one reel of thread. Price each, weight, 2 oz.....25c  
9588102—Clamp or stitching horse, each. Weight, 13 oz.....25c  
Add extra for needles, curved or straight, 5c each; per dozen.....50c  
Add extra for thread, per spool.....5c  
Add extra for beeswax for waxing, per cake, 5c. Per dozen cakes.....50c

### ZIG-ZAG HARNESS MENDERS

9588119—Zig-Zag Harness and Belt Menders and Shoe Sole Savers. Used in place of rivets or sewing. Put on with a hammer. Cheap, strong and practical. Each package contains three dozen menders, assorted in three sizes. For putting on buckles, snap rings, mending lines and other strap work, and for increasing the wear of shoe soles. Regular retail price, 25c per package. Weight, per package, 6 1/2 oz. Our price, per package.....\$0.19  
Per dozen packages.....2.00

### TUBULAR RIVETS

No. 1 Japanned Tubular Harness Rivets, put up in small boxes containing 100 rivets of one size. Be sure to state length wanted. Average weight, about 5 oz. per box.

Size	Weight, per box	Price, per box
3/16 in.	16 oz.	\$0.79
4/16 in.	23 oz.	.87
5/16 in.	25 oz.	.90
6/16 in.	27 oz.	.95
7/16 in.	33 oz.	1.00
8/16 in.	32 oz.	1.10

Tubular Rivets. No. 1 Japanned Tubular Harness Rivets, put up in boxes containing 1,000 rivets of one size.

Art. No.	Size	Weight, per box	Price, per box
9588153	3/16 in.	16 oz.	\$0.79
9588154	4/16 in.	23 oz.	.87
9588155	5/16 in.	25 oz.	.90
9588156	6/16 in.	27 oz.	.95
9588157	7/16 in.	33 oz.	1.00
9588158	8/16 in.	32 oz.	1.10

**Assorted Rivets**  
9588163—Tubular Rivets. No. 1 Japanned Tubular Harness Rivets, for repairing or making all kinds of strap work. Put up in small boxes containing 100 rivets of assorted sizes from 3/16 inch to 8/16 inch. Weight, 4 oz.  
Per box.....\$0.10  
Per doz. boxes.....1.10

### Harness Punches

9588168—Revolving Spring Punches, with six tubes that drive in. All steel, standard quality. Assorted sized tubes in each punch. Weight, 12 oz.  
Each.....48c  
No extra tubes or repairs for this grade.

Revolving spring tube punches, Osborne's make, strictly all steel, and first quality.  
9588173—Four tubes to screw in. Nos. 3, 4, 5 and 6 in each punch. Weight, 13 oz. Price, each.....\$1.25  
9588174—Six tubes to screw in. Nos. 1, 2, 3, 4, 5, and 6 in each punch. Weight, 14 oz. Price, each.....\$1.50  
9588175—Extra screw tubes for Nos. 9588173 and 9588174 Spring Punches. Each.....18c  
Tubes larger than No. 6 will not fit in the frames of four tube or six tube Osborne's punches.

### Reliable Neatsfoot Oil

9588300—Reliable Neatsfoot Oil, compound, specially prepared in our own Laboratory for use on harness, saddles, fly nets, boots, shoes and all articles of leather. This oil is of high quality and very superior merit. Put up in 1 quart cans.  
Weight, per can, 2 1/4 lbs. Price, per can.....\$0.32  
Per doz. cans.....3.50

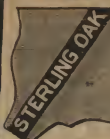
### Reliable Harness Dressing

9588305—Reliable Harness Dressing. Made especially for refinishing harness, fly nets, traveling bags, etc. It is a beautiful, soft, jet black luster which will not smut or peel off and does not lose its color. Put up in 1 quart cans.  
Weight, per can, about 2 lbs., 10 oz. Each.....\$0.33  
Per dozen.....3.75

### Harness Soap

9588310—Frank Miller's Harness Soap. This is the most popular Harness Soap ever offered to the buying public.  
Weight, per cake, 15 oz. Per cake.....14c

## Oak Harness Leather



OUR STERLING ACORN BRAND OAK Tanned Leather, carefully selected by a leather expert who has spent a life-time in the leather business. The leather we offer you is "Genuine Oak Leather," tanned in the old fashioned way from Oak Bark. Far superior to most leather now being offered under Union, English or German Tannage brands. Ours is the best you can possibly obtain and leather that will give you satisfactory service. It is strong and durable. Its quality is such that it costs more than the average brands of leather now on the market, but while it costs you no more, remember it is worth more. We are certain we can offer you the selection of quality leather we do at the low prices named.

We sell harness leather in whole sides only, as we do not cut sides.

Prices on leather are subject to market changes without notice.  
9588105—Harness Leather for repair purposes. Our leather sold under this name is what is known as belly leather, being the lower part of the side from which the back has been cut for single strap harness. The leather comes from various sources, but is of the best tannage and no selection will be made other than weight. The pieces will be made other than 7 lbs. each. We will not cut them, but sell them as they are. Per lb.....31c  
19588106—Oak Tanned Black Harness Leather. Selected "B" grade, whole sides only. Sides weigh from 15 to 22 lbs. Per lb. in full sides.....45c  
9588107—No. 1 Oak Tanned Harness Leather. Our Sterling Acorn Brand Extra Quality, black. Weight, per side, from 15 to 22 lbs. Per lb. in full sides.....49c  
9588108—No. 1 Oak Tanned Russet Skirting or Saddle Leather. Sides weigh from 12 to 15 lbs. each. We do not cut sides. Per lb.....87c

### Sheepskins

9588180—Russet Leather Sheepskins, good large size, for blacksmiths and lumbermen's aprons, etc. Weight, each, 24 oz. Each.....\$1.35  
9588181—Sheepskins, tanned with wool on, used for lining saddles and harness. Large size. Weight, each, about 2 lbs. Each.....\$1.75

### Leather Splitters

Leather Splitting Machine, iron frames, new pattern, the best made. Can be set to any gauge desired and can be fastened to any table or work bench. Art. No. 9588222 9588223 9588224  
Size..... 5 in. 6 in. 7 in.  
Wt..... 4 lb. 4 oz. 6 lb. 6 lb. 10 oz.  
Price..... \$3.95 \$4.35 \$4.65

### Family Harness Mender

9588239—Our New Family Harness Mender, a new production at a new price. Much more complete and superior to the old style in every way, at about one-half the cost.  
It contains the following articles:  
1 Iron Harness Clamp or Vise finely japanned, 1 Patent Awl Handle, 1 Wrench for same, 1 Harness Awl, 1 Harness Punch, 1 Ball Thread, 1 Ball Wax, 1 Paper Needles, 1 Box Coppered Rivets with Holder, 1 Strip Harness Leather, all packed in neat wooden box, securely nailed. A great time and money saver. Only sold in complete sets. Weight, per set, 3 1/2 lbs. Price, per set.....50c

### Harness Horse

9588273—Harnessmaker's Stitching Horse. This is something every horse owner should have. Any man can do his own repairing and save his time, as well as his money. Seat, lever and rounds made of Missouri Hickory with jaws of hard Maple. We handle only a superior Horse, that will give good service. Weight, 18 lbs. Price, without jaw strap, each.....\$2.75  
19588274—Jaw Strap (weight, 6 1/2 lbs.), add.....35c

### Improved Circle Brand Harness Oil

A superior oil for preserving leather. It keeps the leather soft and pliable. Prevents warping and cracking, thus avoiding scratching and cutting. A few applications will give an old harness a fine black gloss, just like new. Sweat and rain do not affect harness treated with Circle Brand. It is used to good advantage on any similar leather surfaces exposed to weather and hard usage. Buy Circle Brand Harness Oil.  
9588331—Half gallon cans. Weight, 4 1/2 lbs. Price, per can.....25c  
9588332—One gallon cans. Weight, 8 1/2 lbs. Price, per can.....54c  
19588333—Five gallon cans. Weight, 43 lbs. Price, per can.....\$2.45

### Hoof Oil

Standard Hoof Oil. A reliable preparation for softening and cleansing the hoof, thus preserving a healthy condition of the feet. It is especially effective in healing barbs, wire scratches, cuts, wounds, galls, soreness of the kidneys and for thrush or foot rot. We believe it as effective as any of the high-priced so-called hoof remedies. No horse owner should be without it.  
9588325—1/2-gallon can. Weight, 4 1/2 lbs.  
9588326—1-gallon can. Weight, 8 1/2 lbs.

## Myer's Famous Lock Stitch Sewing Awl

This Awl is designed for speedy stitching, particularly for farmers' use, and will be found a time saver in nearly every household. Its simplicity makes it a practical tool for all kinds of repair work, even in the hands of the most unskilled.



With this tool you can mend harness, shoes, tents, awnings, pulley belts, carpets, saddles, buggy tops, suit cases, dash boards, or any heavy material. You can sew up wire cuts on horses and cattle, therefore the veterinarian and stock man finds it indispensable.

The Awl, proper, is grooved to contain the thread or waxed end, and the point, being diamond shaped, will go through the toughest leather, any thickness. It is the best Lock Stitch Sewing Awl we have ever seen, and we know from actual test that it is the most practical awl and sewing machine for general use ever devised. This awl is not a novelty, but a necessity, and has been proved by our enormous sales to be a labor saver to every user.

The awl comes packed complete with one straight and one curved needle, one reel waxed thread, small wrench and screw-driver combined, and complete set of directions for use. Weight, about 3 ounces.

9588113—Price, each.....\$0.65  
9588114—Price, per dozen.....7.00  
Add extra for needles (curved or straight) 5c each; 6 for.....25  
Add extra for one-quarter pound tubes of thread for filling spools, price per tube, 39c. Add extra for beeswax for waxing thread, per cake, 50c; per dozen cakes, 50c. Add extra for reels filled with thread. Each.....15c

### Finishing Wheels

Stationary Finishing or Overstitch Wheels, Osborne's make; round shank, black handles; Nos. 5, 6, 7 and 8. The number gives the number of stitches to the inch. Weight, 1 1/2 oz.

Size	Price
9588190—Size, 5.	63c
9588191—Size, 6.	63c
9588192—Size, 7.	63c
9588193—Size, 8.	63c

### Harness Needles, Awls, Handles

9588198—Harness Needles, put up in papers of 25 needles, assorted sizes, 0 to 4. Weight, per package, 1 1/2 oz. Per doz. papers, 50c  
9588199—Straight Harness Awl Blades, small medium and large sizes, assorted. Weight, per dozen, 1/2 oz.  
9588200—Common Turned Sewing Awl Handles. Weight, 1 oz. Per doz.....12c 3 for.....5c

### Collar Awls

9588212—Collar Awls or Drawing Awls, made with large eye for sewing horse collars with leather thongs or whangs; very best material, turned wood handles. Length, 9 in. Weight, 2 oz.  
Each.....30c

### Edge Tool

9588229—Common Edge Tool, used for removing the sharp corners from new strap work, 5 in. long. Wt., each, 1/2 oz. Each.....15c 2 for.....25c

### Pricking Wheels

Stationary Pricking Wheel for marking straps for stitches; Osborne's make; Nos. 5, 6, 7, and 8. The number gives the number of stitches to an inch. Weight, 1 1/2 oz.

Size	Price
9588244—Size, 5.	45c
9588245—Size, 6.	45c
9588246—Size, 7.	45c
9588247—Size, 8.	45c

### Channelers

9588262—Channelers for harness makers' use. For cutting channels, for stitches in traces, and other strap work. Weight, 3 oz. Each.....92c

### Landis Machine Thread

An extra strong, well-made thread for use on all lock-stitch, National or other machines used for sewing leather on either new work or for repair purposes. Put up only in 1-lb. tubes.  
9588267—Gray. Per lb.....\$1.45  
9588268—Black. Per lb.....\$1.50

### Wax

9588279—Black Wax. Standard quality, such as used by harnessmakers and shoemakers for making wax ends. Weight, per ball, 1 oz.; per doz. balls, 12 oz.  
Per ball.....1c  
9588280—Per doz. balls.....8c

### Harness Dressing

9588337—Frank Miller's Harness Dressing, for harness, saddles, fly nets, etc. Gives a beautiful finish, does not lose its luster. Directions for use on every package. Its ingredients are leather food, suited to the needs of cracked, parched, stiff, and dry leather. Is used to soften the leather, prevent it from cracking and lengthen its service. Pint cans, each.....24c  
Weight, each, about 1 1/2 lbs.

### Harness Oil Blacking

9588338—Quart cans. Each.....44c  
Weight, each, about 2 1/2 lbs.  
9588339—1-gallon cans with wood jackets. Weight, 11 lbs. Each.....\$1.35

### Creasers

Single Edge Creasers for harness makers; Osborne's tools and first quality; Nos. 2, 3 and 4. Catalogue number governs sizes. Weight, 1 1/2 oz.

Size	Price
9588205—Size, 2.	35c
9588206—Size, 3.	35c
9588207—Size, 4.	35c

### Osborne Steel Compasses

9588217—Tool Steel Compasses Osborne's best make, for channeling leather so that the stitches will be below the surface. Can be adjusted by means of a set screw. Length, 4 1/4 in. Weight, each, 1 oz. Each.....60c

### Trimming Knives

9588234—Common Square Point Trimming Knives, fine steel blades, turned wood handles. Wt., 1 oz. Each.....9c

### Round Harness Knives

9588252—Round Saddlers' Knives; Harrington's goods. Best quality steel, 5 in. blades, rosewood handles. Weight, 2 oz. Each.....75c  
9588253—Round Knives, Osborne's goods, made of best quality steel, oval rosewood handles. Every one guaranteed. Blades measure 5 in. across from point to point. Weight, 2 oz. Each.....\$1.10

### Osborne's Gauge Knives

9588257—Gauge Knife, hollow iron handle, Osborne's well-known make. Strictly first class goods, very strong and substantial, and will last a lifetime. Will cut from 1/4 to 4 in. Same as used by harness makers. Weight, 16 oz. Each.....\$1.05

### THREAD—Weight, per ball 2 oz.

9588284—Harness or Shoe Thread, No. 10 half bleached linen thread, American Standard, natural linen color, 2 oz. balls. Per lb. (8 balls).....86c Per ball.....12c  
9588285—Barbour's Standard No. 10 Thread, natural linen color, 2 oz. balls. Per lb. (8 balls).....\$1.30 Per ball.....17c  
9588286—Barbour's Standard No. 12 "HB" Thread, natural linen color, 2 oz. balls. Per lb. (8 balls).....\$0.22 Per ball.....16c

### Reliable Metal Polish

9588349—Reliable Metal Polish. The acme of perfection in goods of this nature. For cleaning and polishing brass, copper, nickel, zinc, tin, silver and gold, such as brass signs, railings, harness trimmings, show cases and all household articles. It is not dirty or greasy, like most metal polishes and will not leave deposits in the corners and crevices, nor will it stain or detract the woodwork or other material with which it comes in contact. Will not scratch. Pleasant in odor and does not contain acids or anything injurious to the metal or hands. Put up in 1-pint cans. Weight, 17 oz. Each.....19c

### Metal Polish

Metal Polish, "Putz Pomade." Considered the best metal polish for cleaning and polishing all kinds of smooth finished metals, such as harness trimmings, band instruments, silverware, door plates, etc. Will not cause any injury to either metal or leather. Put up in paste form. Weight, each, 2 oz.  
9588354—Price, per dozen, large size boxes.....50c  
Each.....5c



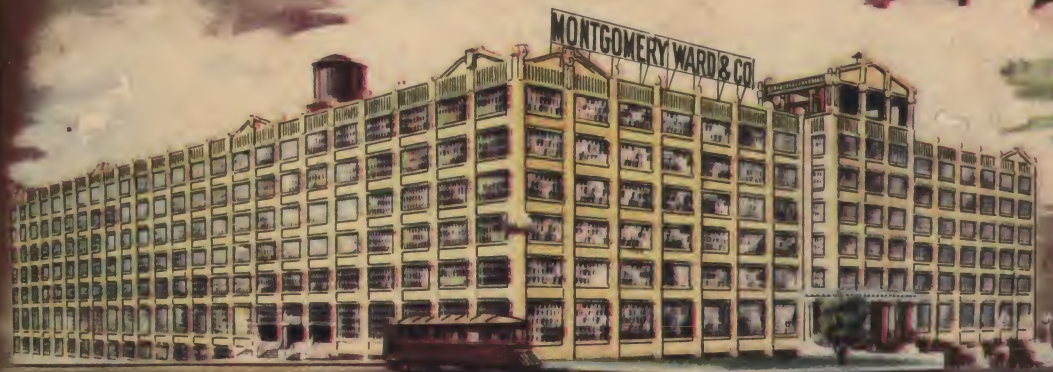
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Serves New England and Atlantic  
Coast States



CHICAGO STORE  
Solid Concrete, 27 Acres  
of floor space



KANSAS CITY STORE  
Completed 1914. Largest Business  
Building West of Mississippi



WHAT DOES SERVICE MEAN?

In our estimation Service means: Everything you  
have a right to expect when you send  
your order in. Good service is our hobby

FT. WORTH  
TEXAS STORE



PORTLAND  
STORE



**MONTGOMERY WARD and Co.**  
NEW YORK, CHICAGO, KANSAS CITY  
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